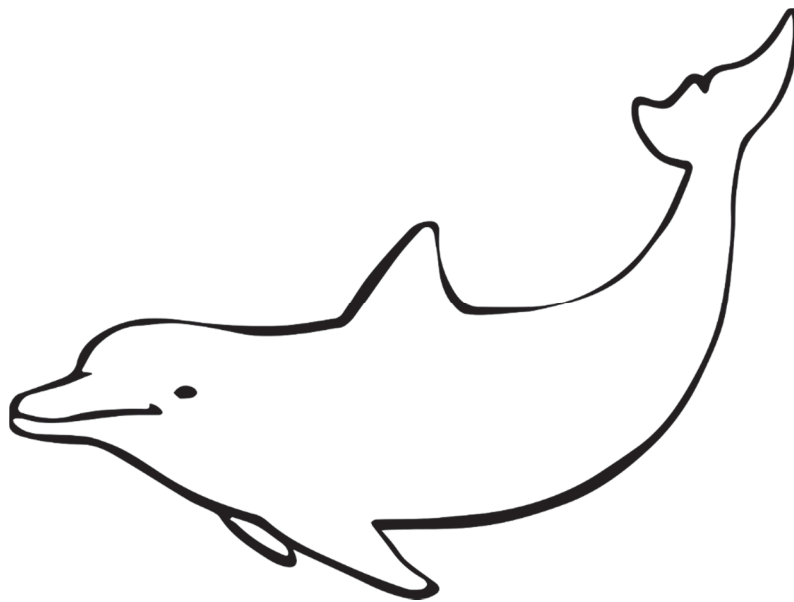


EP Math Step 2

Workbook Answers



Easy Peasy All-In-One-Homeschool

Please contact us if you find any incorrect answers so that we can get them fixed right away.

ARITHMETIC PRACTICE

Addition and Subtraction

DAY 1	16	11	18
DAY 2	6	5	7
DAY 3	13 candies, 17 kids, 8 years old		
DAY 4	40	60	
	40	70	
DAY 5	63	42	
	67	64	
DAY 6	39	59	88
DAY 7	74	83	82
DAY 8	32	72	15
DAY 9	12	25	44
DAY 11	28 markers, \$18, 16 flowers		
DAY 12	1,230	1,511	1,144
DAY 13	234	216	228
DAY 14	556	426	164
DAY 15	453	268	264
DAY 16	26,418	41,839	372,732
DAY 18	32,869	54,542	392,095
DAY 19	28 stickers, 252 bags, 132 cups		

Multiplication and Division

DAY 20	0	48	49
DAY 21	80	500	3,000
DAY 23	120	7,200	42,000
DAY 24	2,100	3,000	36,000
DAY 25	88	68	930
DAY 26	348	846	413
DAY 27	5,103	3,438	2,574
DAY 28	1,161	3,072	4,161
DAY 29	15,848	12,626	21,385
DAY 30	34,692	159,408	126,588

DAY 31	212,625	67,648	273,325
DAY 33	321,057	204,850	171,675
DAY 34	8	9	7
DAY 35	72	9	8
DAY 36	7	7	8
DAY 37	113	49	71
DAY 38	3,874	493	534
DAY 40	4 R 3	5 R 6	7 R 1
DAY 41	52 R 4	92 R 3	84 R 8
DAY 42	528 R 4	441 R 2	727 R 3
DAY 43	28	21	16
DAY 44	29	62	36
DAY 45	16	28	37
DAY 47	42	23	31
DAY 48	336 cans, 16 books, 12 pages		
DAY 49	4 pieces, 9 stamps, 8 bags		
DAY 50	3 peaches, \$11, 79 coins		

Negative Numbers

DAY 61	+78	-1,000	+1,500
DAY 62	-25, -15, 0, 10, 20 -48, -32, 8, 24, 48		
DAY 63	-7, -3, 0, 2 -16, -2, 8, 14 -80, -16, 45, 74		
DAY 64	0	4	-18
DAY 65	0	7	13
DAY 66	True	True	False
DAY 67	2, -5 , 8 -5, 10, -12 -8, -2, -1 , -6		
DAY 68	2	6	-13
DAY 69	2 + (-7) + 9 4 + 9 + (-5)		9 + (-6) + (-5) (-5) + (-3) + 2

DAY 70	-11	9	-2
DAY 71	8	-8	12
DAY 72	-7 °C, -525 feet, 25 °C		
DAY 73	Negative Positive		Negative Positive
DAY 74	-54	-49	48
DAY 75	-7	-5	4

Fractions

DAY 76	1/2	3/5	5/9
DAY 78	1 2	3 5	5 9
DAY 79	3/8	2/5	9/10
DAY 80	2/3	5/6	3/10
DAY 81	B	C	A D
DAY 82	4, 10	9, 8	15, 4
DAY 83	8/11	3/5	5/9
DAY 84	False	True	True
DAY 85	True	True	True
DAY 86	2/5, 1/2, 5/6 1/2, 5/8, 3/4 2/9, 1/4, 1/3		
DAY 87	9/7	1/8	4
DAY 88	31/6	17/5	18/7
DAY 89	7 3/5	5 5/7	2 7/9
DAY 93	True	False	False
DAY 94	True	False	True
DAY 95	1	1/2	2/3
DAY 96	2/7	1/4	4/5
DAY 97	5 3/5	6 1/3	6
DAY 98	3/4	1 2/3	2 3/5
DAY 99	3/4 of an hour 2/3 of the box 2/5 of the box		

DAY 100	4/12, 9/12 9/24, 20/24 15/48, 18/48		
DAY 101	8/9	9/10	2/3
DAY 102	7/15	1/14	1/60
DAY 103	1/2 of the carton 1/10 of the room 1/4 cup of flour		
DAY 104	3 11/12	7 24/35	4 17/30
DAY 105	2 1/8	3 1/2	3/14
DAY 108	9 1/12	6 1/3	5 7/24
DAY 109	4 2/3	2 2/3	3/5
DAY 110	1 5/6	11/14	1 17/20
DAY 111	6 1/4 miles, 3 1/2 feet, 15 3/10 pounds		
DAY 112	1 1/2	2 4/5	5 1/3
DAY 113	2/5	1/3	3/5
DAY 114	9 1/2	9 5/7	26 2/3
DAY 115	Lisa, 2/15 of the pets, 5 problems		
DAY 118	1/20	1/14	1/18
DAY 119	21	45	16
DAY 120	1 1/9	2 2/3	1 1/7
DAY 121	2/7	5/22	6/17
DAY 122	12	5 1/4	4/9
DAY 124	30 pieces, 1 5/8 gallons, 4 1/2 miles		
DAY 125	5/14 of the money, 9/10 cup, 55 miles		

Decimals

DAY 126	12.15	0.005	0.592
DAY 127	Tenths, Thousandths, Hundredths		
DAY 128	6.472 = 6 + 0.4 + 0.07 + 0.002 25.083 = 20 + 5 + 0.08 + 0.003 702.309 = 700 + 2 + 0.3 + 0.009		
DAY 134	0.4	0.9	0.06 0.78
DAY 135	0.1	0.3	0.6 0.9

DAY 136 4.2 4.7 5.3 5.6
DAY 137 0.02 0.04 0.07 0.09
DAY 140 2.73 2.77 2.82 2.88
DAY 141 7 6.8 6.77
 2 2.2 2.2
 18 18.4 18.4
DAY 142 True True False
DAY 143 False True True
DAY 144 True False False
DAY 146 2.9, 6.2, 9.3
 3.9, 4.75, 4.78
 0.02, 0.576, 1.576
DAY 147 0.7 1.62 0.315
DAY 148 1/10 5/10 9/100 42/100
 0.1 0.5 0.09 0.42
DAY 149 3/5 9/20 5/8
DAY 150 0.5 0.36 0.29
DAY 151 9 4/5 1 9/20 9 7/250
DAY 152 1.4 11.9 11.3
DAY 153 5.82 4.08 11.06
DAY 154 6.218 7.034 11.064
DAY 155 0.7 1.8 24.5
DAY 156 3.27 4.36 1.93
DAY 157 4.928 1.297 0.264
DAY 161 6.3 gallons, \$6.88, \$64.84
DAY 162 2.4 0.28 0.056
DAY 163 3.45 1.53 2.12
DAY 164 0.504 23.52 20.15
DAY 165 1.819 1.94 46.9872
DAY 166 13.2 22.25 0.81084
DAY 167 \$42.90, \$29.85, 63 miles
DAY 168 0.8 4.1 0.25
DAY 169 0.9 20 300
DAY 170 8.3 2.6 14

DAY 171 590 13 180
DAY 172 268.9 11.54 44.25
DAY 173 9.3 14 82.05
DAY 174 230 square feet, 205 miles, 6.25 cups

Mystery Numbers

DAY 175

11	-4	-1
-10	2	14
5	8	-7

DAY 176

1/4	-2 7/8	-2 1/4
-4 1/8	-1 5/8	7/8
-1	-3/8	-3 1/2

DAY 177

-0.42	1.28	0.94
1.96	0.6	-0.76
0.26	-0.08	1.62

DAY 178 24/48 4/20 75/100
DAY 179 2.5 2.35 -3.375
DAY 180 6 19/11 75.32

LESSONS AND PRACTICE

DAY 1 Factors and Multiples

A sum minuend
 factor quotient

D factor multiple

E 1, 2, 3, 6

1, 2, 3, 4, 6, 12

1, 2, 3, 6, 9, 18

1, 2, 3, 5, 6, 10, 15, 30

1, 2, 4, 7, 8, 14, 28, 56

F 4, 8, 12, 16, 20 12, 24, 36, 48, 60
 9, 18, 27, 36, 45 25, 50, 75, 100, 125

DAY 1 Practice

A False, True, False, False, True

B 5, 7 1, 52 3, 16
 5, 8 9, 36 21, 6, 0

C 1, 3, 9 1, 2, 4, 5, 10, 20
 1, 11 1, 2, 3, 4, 6, 8, 12, 24
 1, 2, 3, 6, 9, 18, 27, 54
 1, 2, 3, 4, 6, 8, 12, 16, 24, 32, 48, 96

D 10, 60, 90, 21

DAY 2 Prime Factorization

A 2, 3, 5, 7, 11, 13, 17, 19, 23, and 29

C 1st row: $8 = 2 \times 2 \times 2$
 19 is a prime number.
 $26 = 2 \times 13$
 $42 = 2 \times 3 \times 7$
2nd row: $63 = 3 \times 3 \times 7$
 $78 = 2 \times 3 \times 13$
 $32 = 2 \times 2 \times 2 \times 2 \times 2$
 $90 = 2 \times 3 \times 3 \times 5$

DAY 2 Practice

A 3, 13, 23, 43, 53, 73, and 83

B 1st Row: $15 = 3 \times 5$
 $18 = 2 \times 3 \times 3$
 23 is a prime number.
 $30 = 2 \times 3 \times 5$

2nd Row: $52 = 2 \times 2 \times 13$
 $68 = 2 \times 2 \times 17$
 $77 = 7 \times 11$
 $45 = 3 \times 3 \times 5$

3rd Row: $36 = 2 \times 2 \times 3 \times 3$
 $70 = 2 \times 5 \times 7$
 $95 = 5 \times 19$
 $60 = 2 \times 2 \times 3 \times 5$

4th Row: $48 = 2 \times 2 \times 2 \times 2 \times 3$
 $88 = 2 \times 2 \times 2 \times 11$
 $75 = 3 \times 5 \times 5$
 $92 = 2 \times 2 \times 23$

DAY 3 Greatest Common Factor (GCF)

A Factors of 36: 1, 2, 3, 4, 6, 9, 12, 18, 36
 $\text{GCF}(24, 36) = 12$

C 1 2 2
 2 3 4
 7 5 6
 7 4 5

9

DAY 3 Practice

A 3 2 1
 5 2 3
 10 4 2
 1 4 21
 14 15 14

B 180, 570, 973, 428

DAY 4 Least Common Multiple (LCM)

A Multiples of 8: 8, 16, 24, 32, 40, 48, ...
 $\text{LCM}(6, 8) = 24$

C 40 12 9
 50 80 72

D 20 days
 6 tiles
 4 inches
 2 turns

DAY 4 Practice

A 6 18 35
24 45 28
60 176 42

B 10 a.m.
6 bags
24 minutes
150 customers
3 pears
7 boys and 9 girls

DAY 5 Distributive Property and GCF

D 0 | 0

E $(4 \times 6) + (4 \times 8) = 24 + 32 = 56$
 $(7 \times 7) + (7 \times 4) = 49 + 28 = 77$
 $(4 \times 4) + (9 \times 4) = 16 + 36 = 52$

F $6 \times 5 + 6 \times 7 = 6 \times (5 + 7) = 6 \times 12$
 $4 \times 7 + 4 \times 4 = 4 \times (7 + 4) = 4 \times 11$
 $9 \times 9 + 9 \times 5 = 9 \times (9 + 5) = 9 \times 14$

DAY 5 Practice

A $3 \times (7 + 7) = 3 \times 7 + 3 \times 7$
B $(3 \times 7) + (3 \times 9) = 21 + 27 = 48$
 $(6 \times 5) + (8 \times 5) = 30 + 40 = 70$
 $(8 \times 10) + (8 \times 7) = 80 + 56 = 136$
 $(50 \times 9) + (4 \times 9) = 450 + 36 = 486$
 $(30 \times 6) + (8 \times 6) = 180 + 48 = 228$
C $3 \times 3 + 3 \times 5 = 3 \times (3 + 5) = 3 \times 8$
 $6 \times 3 + 6 \times 2 = 6 \times (3 + 2) = 6 \times 5$
 $4 \times 7 + 4 \times 6 = 4 \times (7 + 6) = 4 \times 13$
 $7 \times 7 + 7 \times 5 = 7 \times (7 + 5) = 7 \times 12$
 $8 \times 8 + 8 \times 3 = 8 \times (8 + 3) = 8 \times 11$
 $16 \times 5 + 16 \times 3 = 16 \times (5 + 3) = 16 \times 8$
D 65, 96, 37, 82

DAY 6 Adding and Subtracting ...

C $1 \frac{1}{2}$ $\frac{1}{2}$
 $1 \frac{8}{21}$ $19/30$
 $4 \frac{1}{8}$ $1 \frac{1}{3}$
 $3 \frac{1}{12}$ $5 \frac{17}{24}$
 $6 \frac{1}{18}$ $1 \frac{3}{10}$

DAY 6 Practice

A Answers will vary. Sample:
 $4/14, 6/21, 8/28$ $3/4, 6/8, 12/16$
 $10/16, 15/24, 20/32$ $2/3, 4/6, 6/9, 8/12$

B $1 \frac{4}{7}$ $2/3$
 $1 \frac{7}{30}$ $5/14$
 $6 \frac{1}{4}$ $2 \frac{2}{5}$
 $8 \frac{5}{12}$ $4 \frac{1}{8}$
 $7 \frac{1}{6}$ $2 \frac{13}{18}$
 $10 \frac{1}{4}$ $7 \frac{7}{12}$
 $8 \frac{11}{18}$ $2 \frac{2}{15}$

DAY 7 Multiplying and Dividing ...

D $1/6$ $3/5$
 $4 \frac{4}{5}$ $5/6$
 $1 \frac{1}{6}$ $2 \frac{1}{10}$
 $3 \frac{3}{4}$ $8/9$

DAY 7 Practice

A $8/5$ $41/8$ $29/9$ $18/7$
B $3/7$ $1 \frac{1}{9}$
 $1/3$ $1/15$
 $13 \frac{1}{3}$ 21
 $1 \frac{1}{2}$ $9/10$
 $37 \frac{1}{3}$ $2/9$
 4 $1 \frac{1}{14}$
 $22 \frac{1}{2}$ $1 \frac{2}{3}$

DAY 8 Word Problems with Fractions

A 40 minutes
85 minutes
Science
Science
 $3 \frac{5}{12}$ hours
 $1/6$ hour
 $4 \frac{3}{4}$ hours
 $19/20$ hour
Bible
 $3/4$ hour
5 minutes
 $3 \frac{3}{4}$ hours
1:15 p.m.

$7 - (7 \div 7) = 7 - 1 = 6$

DAY 8 Practice

- A** 34 candies
Chris
7/20
Tylor
1/2
3/5
7 laps
12 $5/12$ rows
10 $1/2$ miles
1/8 gallon
1 $11/24$ pounds
9 sessions
4 $2/5$ loaves
19 minutes
12 pieces

DAY 9 Operations with Decimals

- E** 9.653 7.65
39.98 2.07
3.595 40.5

DAY 9 Practice

- A** 3.78 1.891
3.23 6.218
6.23 103
0.45 9.531
1.7 0.512
0.25 7.95
14.31 4.243
2.46 268.128
26 9.5053

DAY 10 Catch up and Review!

- B** 4
4/15
5/9
8/27
32.26
3.5

DAY 10 Practice

- A** False, True, True, True, False
B 1st square: 2/5 3/10 4/5
 9/10 1/2 1/10
 1/5 7/10 3/5
2nd square: 2 3/4 1
 1/4 1 $1/4$ 2 $1/4$
 1 $1/2$ 1 $3/4$ 1/2
C 3/9, 8/20, 15/30, 5/33, 11/19

DAY 11 Ratios, Rates, and Unit Rates

- A** 5/60 5:60 5 to 60
9/13 9:13 9 to 13
B 3:4 3:7 2:5
D 52 miles/gallon 78 heartbeats/minute
E \$0.70/pound \$0.50/pound
\$2.40/kilogram \$2.50/kilogram

DAY 11 Practice

- A** 35/14 35:14 35 to 14
24/3 24:3 24 to 3
10/40 10:40 10 to 40
B 3:2 6:7 5:3
2:3 3:2 5:3
C \$7.35/ticket 54 customers/hour
64 miles/day 258 births/minute
D Anthony
Carter
Store Q
Emily
Store M

DAY 12 Ratio Tables

- A** Answers will vary. Sample:
4:10, 6:15, 8:20 7:3, 14:6, 21:9
C Ana: 4 28 Sam: 35 7
 3 21 25 5
 8 56 50 10
Jake: 675 15 Ben: 3 6.15
 450 10 5 10.25
 225 5 10 20.50
D T: 4.6 5 K: 14.08 16
 9.20 10 3.52 4
 0.92 1 0.88 1

DAY 12 Practice

A Answers will vary. Sample:

6:10, 9:15, 12:20 4:7, 8:14, 12:21

B Max:	16	4	Karen:	120	5
	20	5		192	8
	40	10		72	3
Emily:	52	8	Mike:	432	6
	39	6		144	2
	6.5	1		72	1
Carl:	1.80	12	Joe:	820	40
	0.60	4		82	4
	0.15	1		20.50	1

C 5:1, 6:33

DAY 13 Proportions

D $x = 15$ $x = 6$
 $x = 10$ $x = 20$

42 apples \$19
10 cups 16 problems

DAY 13 Practice

A $x = 30$ $x = 32$
 $x = 6$ $x = 45$
 $x = 4$ $x = 15$

\$21.45 96 ounces
72 grams 15 inches
15 bananas 175 children
4 daisies 12 boys

DAY 14 Proportions

B $x = 20$ $x = 60$
 $x = 2$ $x = 49$
 $x = 6$ $x = 45$

9 cups 10 problems
28 cakes 44 miles

DAY 14 Practice

A $x = 15$ $x = 18$
 $x = 112$ $x = 5$
 $x = 10$ $x = 25$
 $x = 8$ $x = 6$
 $x = 7$ $x = 15$

232 miles 48 cans
\$12.50 4,500 words

DAY 15 Fractions, Decimals, and ...

C $4/5$	0.8	80%
$3/4$	0.75	75%
$3/8$	0.375	37.5%
$22/40$	0.55	55%
$16/25$	0.64	64%
$47/50$	0.94	94%

DAY 15 Practice

A $5/8$	0.625	62.5%
$3/5$	0.6	60%
$6/16$	0.375	37.5%
$7/20$	0.35	35%
$18/24$	0.75	75%
$21/25$	0.84	84%
$23/50$	0.46	46%
$9/75$	0.12	12%

B 0.5, 25%, 3.9, 12/16, 2/5, 684%

DAY 16 Percent of a Number

A 125%	1.25	1 1/4
45%	0.45	9/20
240%	2.4	2 2/5

D 20 problems
\$336
Levi's team
Store M
\$84

DAY 16 Practice

A 15%	0.15	3/20
175%	1.75	1 3/4
64%	0.64	16/25
260%	2.6	2 3/5

B 2.4 8.8
14.95 217
66 1,150

C 7 crayons
35%
\$43.20
\$2.60
\$136

DAY 17 Catch up and Review!

- B** 2:5
n = 60
\$6.30
2 1/5
11.7

DAY 17 Practice

A True, False, False, True, True

- B** > = >
< < =

C	1	7	1	9	6	2	5.719
			1			2	224.46
			5			4	1154
	2	2	4	4	6	2	17.196
			7			3	47.55
			5	7	1	9	1045
	1	0	4	5		8	22423.98

DAY 18 Exponents and Order of ...

- A** $1 \times 1 \times 1 \times 1 \times 1 = 1$ $5 \times 5 \times 5 = 125$
 $2 \times 2 \times 2 = 8$ $3 \times 3 \times 3 \times 3 = 81$

- C** 5 14
4 89
31 11
28 54
25 124

DAY 18 Practice

- A** 9^3 8^7
 4^4 35^6
- B** 1 144
25 1000
- C** 11 63
34 27
22 29
16 86
57 80
93 38
14 41
9 15

DAY 19 Number Properties

- C** $(46 + 14) + 18 = 60 + 18 = 78$
 $(32 + 18) + (7 + 23) = 50 + 30 = 80$
 $(2 \times 5) \times 52 = 10 \times 52 = 520$
 $(5 \times 2) \times (11 \times 3) = 10 \times 33 = 330$
 $8 \times (30 + 6) = (8 \times 30) + (8 \times 6) = 240 + 48 = 288$
 $(20 + 7) \times 5 = (20 \times 5) + (7 \times 5) = 100 + 35 = 135$
 $9 \times (40 + 8) = (9 \times 40) + (9 \times 8) = 360 + 72 = 432$
 $(7 \times 6) + (7 \times 8) = 42 + 56 = 98$
 $(4 \times 6) + (5 \times 6) = 24 + 30 = 54$
 $(5 \times 9) - (5 \times 2) = 45 - 10 = 35$
 $(8 \times 6) - (4 \times 6) = 48 - 24 = 24$

DAY 19 Practice

A

		O	
O			O
	O		O

B

	O	
O		O

- C** $(6 \times 5) + (6 \times 7) = 30 + 42 = 72$
 $(8 \times 5) + (4 \times 5) = 40 + 20 = 60$
 $(6 \times 9) - (6 \times 4) = 54 - 24 = 30$
 $(7 \times 8) - (2 \times 8) = 56 - 16 = 40$
- D** $3 \times 3 + 3 \times 4 = 3 \times (3 + 4)$
 $11 \times 5 + 11 \times 8 = 11 \times (5 + 8)$
 $16 \times 4 + 16 \times 3 = 16 \times (4 + 3)$
- E** $(55 + 15) + 27 = 70 + 27 = 97$
 $(46 + 14) + (9 + 21) = 60 + 30 = 90$
 $(5 \times 4) \times 14 = 20 \times 14 = 280$
 $3 \times (6 \times 5) \times 7 = (3 \times 30) \times 7 = 90 \times 7 = 630$
 $6 \times (50 + 4) = (6 \times 50) + (6 \times 4) = 300 + 24 = 324$

DAY 20 Algebraic Expressions

- C** 6 15 44
12 31 16
4 4 21
- D** 3g
35 + 40h
185 - 20d
- E** 12 115 65

DAY 20 Practice

A 20 4 15
15 19 5
3 3 20
30 15 13

B 0.5c
12/p
50 + 35h
20 - 3b
60h
2(n - 5)

C 4 1.5 120
5 90 18

DAY 21 Like Terms

B

0		0	0	
	0			0

D 10x 10m²
5k + 5 7t - 3
9n - 8 3s² - 2s + 2
9 17p + 5
6 + xy 9u - 12v

DAY 21 Practice

A There are 7 terms in the expression.
4xy and 7xy are like terms.
There are two variables: x and y.

B

	0	0		
0			0	0

C 14a 12r + 5
7k + 2 4m + 7n
15 10p - 3q + 6
4m - 1 5s + t
7n + 3 3k² + 7
7b² + 2 2x² - xy + 4y²

D 42 27 20

10 to 10 = 9:50 (time)

DAY 22 Catch up and Review!

B 60
380
23
x² + 3

DAY 22 Practice

A Term
Like terms
Constant
Coefficient
Exponent

B 3² + 12 × (9 - 3) ÷ 3 - 2⁵
= 3² + 12 × 6 ÷ 3 - 2⁵ Parenthesis
= 9 + 12 × 6 ÷ 3 - 32 Exponents
= 9 + 72 ÷ 3 - 32 Multiplication
= 9 + 24 - 32 Division
= 33 - 32 Addition
= 1 Subtraction

(6² ÷ 9 - 27 ÷ (7 + 2))³ × 5
= (6² ÷ 9 - 27 ÷ 9)³ × 5 Parenthesis
= (36 ÷ 9 - 27 ÷ 9)³ × 5 Exponent
= (4 - 3)³ × 5 Division
= 1³ × 5 Parenthesis
= 1 × 5 Exponent
= 5 Multiplication

C 5 + 1.5y
20 - 0.8c
3(q + 4)

D 14 11.2 36

DAY 23 Equations

B

	0		
0			
			0
	0		

C Yes, Yes, No, Yes, No, No, Yes

DAY 23 Practice

A No, Yes, Yes, Yes, Yes, No
No, Yes, No, Yes, Yes, No

B m + 5 = 19
60k = 150
0.9x = 18
p/2 = 15
w - 5 = 11
1.4 + n = 3

DAY 24 Addition and Subtraction ...

D $a = 3$ $u = 10$ $x = 14$
 $y = 72$ $h = 46$ $c = 36$
 $k = 54$ $m = 27$ $f = 43$

DAY 24 Practice

A $x = 2$ $n = 8$ $g = 4$
 $b = 21$ $v = 8$ $w = 8$
 $q = 58$ $u = 6$ $r = 63$
 $c = 36$ $m = 87$ $h = 56$
 $d = 131$ $j = 54$ $p = 17$
 $k = 49$ $t = 5$ $z = 133$

DAY 25 Addition and Subtraction ...

B $a = 8$ $f = 48$ $h = 58$
 $m = 33$ $u = 29$ $k = 64$
 $w = 9$ $x = 22$ $c = 42$
 $k = 41$ $b = 28$ $u = 26$
 $y = 75$ $p = 45$ $n = 41$

DAY 25 Practice

A $m = 70$ $c = 3$ $r = 16$
 $h = 49$ $a = 61$ $x = 63$
 $p = 54$ $w = 57$ $y = 81$
 $b = 52$ $n = 72$ $q = 53$
 $d = 16$ $s = 43$ $h = 48$

B Circle = 3, Pentagon = 7, Star = 5

DAY 26 Multiplication and Division ...

D $x = 7$ $a = 24$ $q = 5$
 $c = 36$ $d = 7$ $y = 320$
 $p = 5$ $n = 121$ $g = 3$
 $m = 112$ $s = 150$ $k = 3$

DAY 26 Practice

A $b = 5$ $m = 9$ $x = 20$
 $y = 36$ $x = 9$ $k = 42$
 $h = 8$ $c = 200$ $q = 7$
 $x = 270$ $p = 7$ $t = 180$
 $d = 216$ $s = 8$ $u = 372$
 $n = 5$ $w = 918$ $g = 8$

You took two apples, so you have two.

DAY 27 Multiplication and Division ...

B $k = 7$ $c = 64$ $h = 9$
 $d = 54$ $y = 5$ $y = 39$
 $b = 7$ $n = 44$ $q = 4$
 $m = 147$ $s = 80$ $x = 3$
 $m = 6$ $g = 72$ $r = 380$

DAY 27 Practice

A $x = 24$ $m = 11$ $y = 40$
 $x = 51$ $q = 2$ $s = 66$
 $p = 5$ $k = 96$ $b = 4$
 $x = 140$ $h = 6$ $t = 65$
 $u = 144$ $h = 5$ $w = 330$

B Circle = 3, Pentagon = 7, Star = 4

DAY 28 One-step Equations

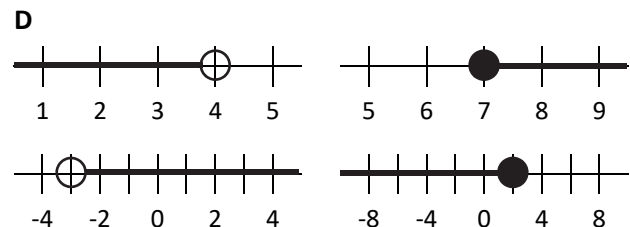
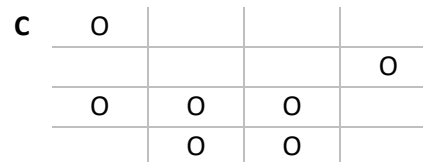
C Step 1 No mistake
Step 2 Step 1

D $15t = 75$ $m + 38 = 96$
5 tickets 58 dollars
 $k - 24 = 19$ $b/25 = 30$
43 dollars 750 books

DAY 28 Practice

A Jessica, Mike, Paul, Carol

B $q - 14 = 7$ $8y = 112$
21 quarters 14 dollars
 $m + 15 = 32$ $d/4 = 17$
17 pencils 68 dollars
 $16x = 128$ $x + 5 - 7 = 12$
8 centimeters 14th floor

DAY 29 Inequalities

DAY 29 Practice

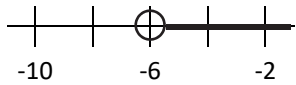
A		O	O	
	O		O	
		O		O

- B** 2, 3, 4, 5 5, 6, 7, 8 4, 5, 6
 -1, 0, 1, 2 -3, -2, -1 None

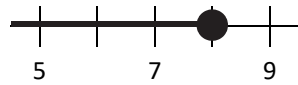
- C** $k < 3$ $k \geq -2$ $-5 < k \leq 10$
 $k > -8$ $k < 45$ $-18 \leq k < -8$

D

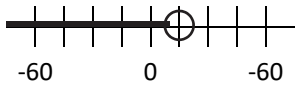
$m > -6$



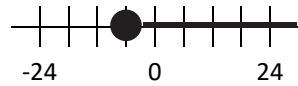
$s \leq 8$



$q < 15$



$d \geq -6$



DAY 30 One-step Inequalities

- A** $<, <, >, >$

- C** $x > 31$ $x \leq 47$ $x \leq 6$
 $x \leq 7$ $x < -3$ $x < -8$
 $x < -36$ $x \geq -56$ $x \leq 27$

- D** $x < -148$
 $x > 0.7$
 $x \geq 473$

DAY 31 Practice

- A** $x > 6$ $x \leq 22$ $x > 24$
 $x \leq 17$ $x \geq 64$ $x \leq 23$
 $x > 8$ $x > -6$ $x > 28$
 $x \leq -54$ $x \leq 9$ $x \geq 27$
 $x < 99$ $x \leq -84$ $x > -5$

- B** $x \leq 10$
 $x < 40$
 $x \geq 51$
 $x \leq 1,500$
 $x \geq 157$

DAY 31 Direct Variation

- C** 18, 30 2, 4, 5
 $y = 6x$ $y = (1/2)x$
 0, 2, 4 10, 20, 40
 $y = (1/5)x$ $y = 2x$
- D** $y = 3x$ $y = x$
 $y = 7x$ $y = 4x$
 $y = (1/4)x$ $y = 5x$
 $y = (1/2)x$ $y = (1/5)x$

DAY 31 Practice

- A** No Yes No Yes
 $k = 1$ $k = 1/7$
- B** $y = 12x$ 12, 24, 36, 48, 60
- C** $y = (1/4)x$ No
 $y = 3x$ No
 $y = 7x$ $y = (1/10)x$
- D** $y = 9x$ $y = 6x$
 $y = 4x$ $y = (1/5)x$
 $y = (1/2)x$ $y = (1/3)x$

DAY 32 Catch up and Review!

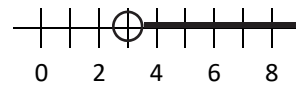
- B** $x = 17$ $x = 54$
 $x = 6$ $x = 52$
 $x > 8$ $x \geq -4$
 $y = 3x$

DAY 32 Practice

- A** $x = 8$ $x = 33$ $x = 76$
 $x = 104$ $x = 81$ $x = 14$
 $x = 4$ $x = 84$ $x = 75$

B

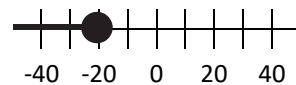
$x > 3$



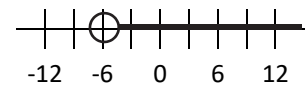
$x \leq 8$



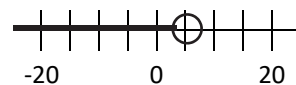
$x \leq -20$



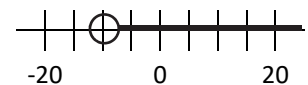
$x > -6$



$x < 5$



$x > -10$



DAY 33 Perimeter and Area of ...

A	24 in	32 ft	28 cm
F	225 cm ²	42.5 in ²	0.91 ft ²
	26 m ²	76 ft ²	7.36 yd ²

DAY 33 Practice

A	48 cm	5.6 m	44 in
B	37.5 ft ²	82.8 in ²	2.7 cm ²
	0.88 yd ²	31.36 m ²	14.8 in ²
	95 in ²	58.8 m ²	1.44 ft ²
	80 cm ²	49 ft ²	95 in ²

DAY 34 Area of Polygons

D	22.5 ft ²	5 m ²	45 yd ²
	14.7 in ²	26.8 cm ²	182 in ²
	78.75 cm ²	35 in ²	124 in ²

DAY 34 Practice

A	74.25 in ²	18 m ²	61.5 cm ²
	0.55 ft ²	57.6 m ²	5.6 cm ²
	119 in ²	33.75 m ²	0.6 km ²
	13.8 in ²	12 ft ²	39 yd ²
B	25.4 ft	35.5 yd	60 in
	35 ft ²	73.1 yd ²	93 in ²

DAY 35 Volume of Prisms

D	105 in ³	315 cm ³
	64 cm ³	160 ft ³
	630 in ³	810 m ³

DAY 35 Practice

A	3,375 cm ³	56 in ³
	1,080 m ³	384 ft ³
	168 in ³	405 cm ³
	120 in ³	1,260 in ³
B	x = 9 ft	y = 5 in

DAY 36 Surface Area of Prisms

C	192 m ²	184 ft ²
	150 cm ²	150 in ²

DAY 36 Practice

A	Cuboid, Triangular prism, Cube, Square pyramid		
B	48 ft ²	60 ft ²	20 ft ²
	48 ft ²	60 ft ²	20 ft ²
	256 ft ²		
C	486 cm ²	726 in ²	
	332 m ²	310 ft ²	
	392 in ²	280 ft ²	

DAY 37 Surface Area of Prisms

B	480 cm ²	182 ft ²
	600 in ²	405.6 cm ²
	183.4 cm ²	178.5 ft ²
C	416 in ²	

DAY 37 Practice

A	81.6 in ²	104 ft ²
	150 cm ²	828 in ²
	108 in ²	228 ft ²
B	280 in ²	
	4,200 in ²	
	1,560 in ²	

DAY 38 Geometry Terms

B	24 in, 24 in ²	6 in, 1.7 in ²
	20 ft, 21 ft ²	24 m, 28 m ²
C	<i>Volume</i>	<i>Surface area</i>
	729 cm ³	486 cm ²
	450 cm ³	370 cm ²
	56 in ³	100 in ²
	24 ft ³	60 ft ²
	28 yd ³	62 yd ²
	1320 cm ³	744 cm ²

DAY 38 Practice

- A** $x = 8$ cm $x = 5$ in
 $x = 8$ in $x = 3$ ft
- B** *Volume* *Surface area*
 125 m^3 150 m^2
 160 in^3 184 in^2
 192 cm^3 240 cm^2
- C** $5 \text{ m} \times 8 \text{ m}$ (or $8 \text{ m} \times 5 \text{ m}$)
 54 cm^2
 96 cm^2
 288 cm^3

DAY 39 Catch up and Review!

- B** 15 in
 39 cm^2
 252 in^3
 148 in^2

DAY 39 Practice

- A** True, True, False, False, True
False, True, True, False, True
- B** $14x = 126$ $(1/2)6x = 30$
 $x = 9$ cm $x = 10$ in
 $36 + x = 60$ $10 + 2x = 22.4$
 $x = 24$ in $x = 6.2$ m
 $18x = 108$ $12 + 4x + 6x = 52$
 $x = 6$ in $x = 4$ ft

DAY 40 Measures of Center

B Mean	Median	Mode
4.6	5.5	6
7	7	8
12.5	11.5	10
38	34	30
332.5	330	330

DAY 40 Practice

A Mean	Median	Mode
6	7	7
5.5	4.5	4
4.4	4	5, 2
6	7	8
11	10	9
24	24	20
42.8	45.5	56
79	90	None
522	526	526

DAY 41 Measures of Variability

C Range	MAD
11	2.8
19	5.4
41	11.8
38	10.5

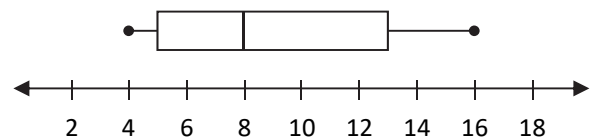
DAY 41 Practice

A First 5 answers:		Next 4 answers:	
Range	MAD	Range	MAD
8	2.5	44	14.5
12	3	48	17.5
20	4.6	48	13.2
19	4.8	458	106
37	11		

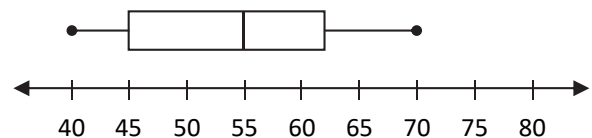
DAY 42 Box-and-whisker Plots

D

1st data set: 4, 5, 8, 13, 16



2nd data set: 40, 45, 55, 62, 70

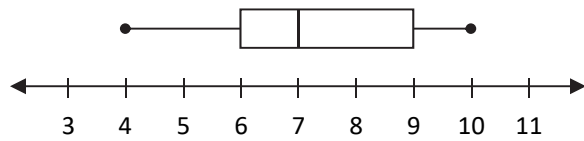


- E** The median score is 80.
The interquartile range of the scores is 15.
25% of the students scored above 90.

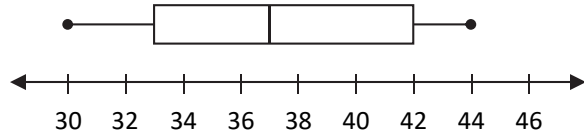
DAY 42 Practice

A

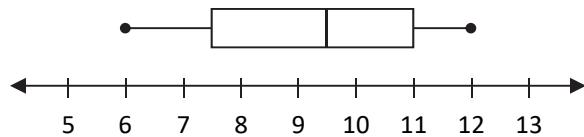
1st data set: 4, 6, 7, 9, 10



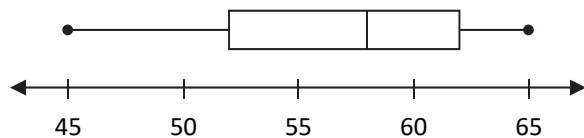
2nd data set: 30, 33, 37, 42, 44



3rd data set: 6, 7.5, 9.5, 11, 12



4th data set: 45, 52, 58, 62, 65



- B**
- | | |
|-----|----|
| 64 | 92 |
| 16 | 18 |
| 68 | 96 |
| 6 | 10 |
| 50% | |
| 75% | |
| 25% | |
| 50% | |
| 25% | |

DAY 43 Graphs

- G** 20 students
Median = 85, Range = 33
14 students
- H** 16 members
7 members
87.5%
- I** 75 mm
June
January, February

No time at all. The wall is already built.

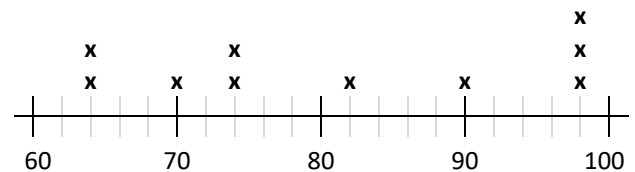
DAY 43 Practice

- A**
- | | Mean | Median | Mode | Range |
|-----------------------|------|--------|------|-------|
| 1 st plot: | 13 | 11 | 11 | 24 |
| 2 nd plot: | 24 | 25 | 15 | 29 |
- B** Interval Frequency
- | | |
|---------|----|
| 20 ~ 29 | 8 |
| 31 ~ 39 | 10 |
| 41 ~ 49 | 7 |
| 50 ~ 59 | 5 |
- C** 16 members
7 members
75%
- D** 6 miles
35 miles
5 miles per day

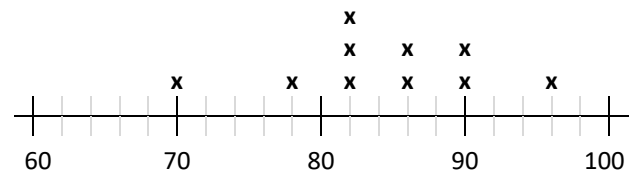
DAY 44 Graphs

A

Ryan's scores:



Carter's scores:



- B** Ryan
Carter
Carter
Ryan's scores
Ryan = 81.2, Carter = 84.2
- C** 2016
125 students
Increasing
- D** October
450 books
Mode = 400, Range = 300

DAY 44 Practice

- A** 12 students
Mode = 3, Range = 6
2.9 hours per student
- B** 30 cups
240 cups
40 cups per day
- C** Emily
10 miles
6 miles per day
- D** Mode = 12, Range = 48
38 years old
14 visitors

DAY 45 Statistics Terms

- B** See Day 40, Part A. See Day 41, Part A.
See Day 42, Part B. See Day 41, Part A.
See Day 42, Part C. See Day 43, Part A.
See Day 43, Part C. See Day 43, Part E.

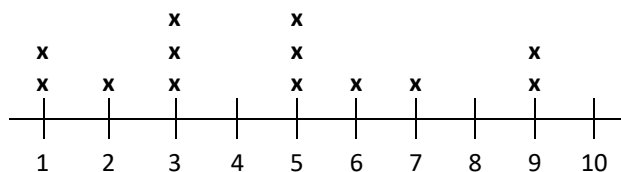
DAY 45 Practice

- A** False, False, True, True, False
True, True, False, True, True
- B** 25 coins
105 coins
Paul, Mia, and Max
- C** 15 students
4 coins per student

DAY 46 Catch up and Review!

- B** 14
6.8
14

Stem	Leaf
0	1, 7, 8
1	0, 0, 5, 7
2	2, 4, 6



DAY 46 Practice

- A** $x = 36$ $x = 150$ $x = 49$
 $x = 48$ $x = 63$ $x = 7$
- B** 20 0
44 26
40 10
- C**
- | | Mean | Median | Mode | Range |
|----------------------|------|--------|------|-------|
| 1 st row: | 5 | 5 | 5 | 5 |
| | 8 | 8 | 7 | 9 |
| 2 nd row: | 5 | 5.5 | 6 | 5 |
| | 10 | 12 | 13 | 13 |
| 3 rd row: | 7 | 7.5 | 9 | 6 |
| | 9.5 | 8 | 3 | 15 |

DAY 47 Numbers on a Number Line

- A** positive, negative, negative, positive,
positive, negative
- C** +3, -40, -2000
- D** -7, -2, 5, 8 -3, -2.5, 0, 4 -5, -0.9, $\frac{1}{4}$, 1, 4
- E** -3.0, 2.0, -7.5

DAY 47 Practice

- A** +62, -5, -8, +100
- B** -9, -8, 2, 7 -3, -0.8, 0, 4 -4, -1, 0.2, $\frac{1}{4}$, 5
-18, -6, -5, 7 -2.5, -2, 1, 2 -3, -1, 0.5, $\frac{3}{4}$, 1
- C** -1 $\frac{3}{4}$ -1 - $\frac{1}{2}$ $\frac{3}{4}$
-6 $\frac{1}{3}$ -5 $\frac{5}{6}$ -5 $\frac{1}{2}$ -4 $\frac{2}{3}$ -4 $\frac{1}{3}$
-5.2 -4.6 -4.2 -3.8 -3.4
-9.25 -8.5 -7.75 -7.25 -6.5
-0.24 -0.18 -0.14 -0.06 -0.02

DAY 48 Absolute Value

- B** 0 12 276
9 49 303
8 85 758
- C** 0, |-5|, 7 -11, 10, |-12| -8, -3, |-4|, |-6|
-6, |0|, |7| -40, 40, |-70| -43, 0, |7|, |-11|
- D** 3 11
5 30
16 -11
33 30
2 -11

DAY 48 Practice

A 1 50 176
 5 37 418
 7 92 630

B 1, 4, |-7| -31, 13, |-15| -7, -3, |-2|, |-5|
 -6, |1|, |3| -24, 45, |-62| -9, -8, |6|, |-7|

C

O	O		
	O	O	
O			O

D 0 26
 10 5
 41 26
 23 30
 37 30
 52 0

DAY 49 Opposite Numbers

B A, J B, I D, H F, G

C 0 3/4
 8 -0.75
 12 11.3

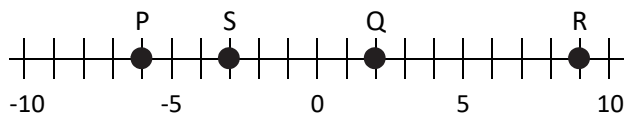
D 9, 5, -18, 0, 0, 24, \$248

DAY 49 Practice

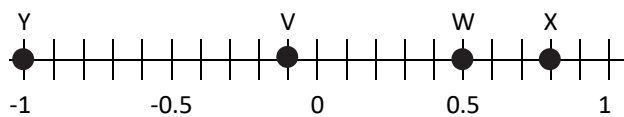
A True, True, False, False, True

B

Point P: -6 Point Q: 2
 Point R: 9 Point S: -3



Point V: -0.1 Point W: 0.5
 Point X: 0.8 Point Y: -1.0



C -3 -1/4
 1 -0.25
 29 3 1/2

D 2608, 47, 455

DAY 50 Coordinate Plane

C D C
 G I
 E B
 J L
 A F
 H K

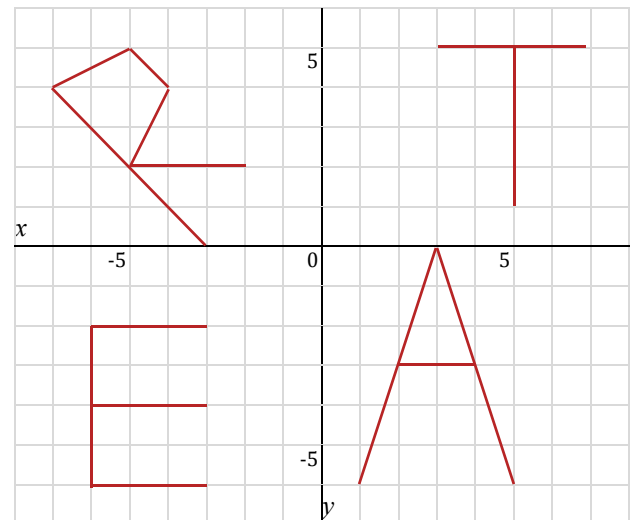
D (2, 4) (0, 2)
 (-5, 2) (-4, 5)
 (-2, 0) (7, 2)
 (2, -2) (5, -4)
 (6, 0) (0, -3)
 (-7, -5) (-5, -2)

DAY 50 Practice

A E C
 B H
 I D
 A L
 K J
 G F

B (-4, 3) (-5, -6)
 (-8, 0) (0, -4)
 (1, 2) (3, 4)
 (0, -1) (-3, 0)
 (-9, -3) (-10, 3)
 (3, -2) (-2, -3)

C Words: RATE, TARE, TEAR



DAY 51 Catch up and Review!

- B** -1, -1/2, 3
20
3/4
(-1, -3)

DAY 51 Practice

- A** True, False, True, True, False
True, False, False, True, False
- B** 50 35
12 79
- C** $x = 15$ $x = 5$ $x = 42$
 $x = 115$ $x = 71$ $x = 72$

DAY 52 Review: Number Fluency

- B** 8, 16, 24, 32, 40
1, 2, 3, 6, 9, 18, 27, 54
2, 3, 5, 7, 11
 $2 \times 5 \times 7$
8
54
 $1 \frac{1}{12}$ $2 \frac{17}{44}$
5.73 9.888

DAY 52 Practice

- A** True, False, True, True, False
- B** 1, 2, 3, 4, 6, 12 1, 7, 49
1, 2, 3, 6, 9, 18 1, 2, 5, 10, 25, 50
- C** 42 30 108
- D** $7 \frac{5}{24}$ $1 \frac{2}{9}$
4.64 2.52
- E** 4.69, 75.32

DAY 53 Review: Rate, Ratio, and ...

- B** 3/10
16/25
420%
Kyle
Store M
4 1/2 cups
14 students
 $x = 6$ $x = 21$

DAY 53 Practice

- A** False, True, True, False, True
- B** 62 miles/hour 13 children/group
\$16/hour 25 miles/gallon
- C** $x = 2.5$ $x = 6$
 $x = 1.6$ $x = 16.5$
- D** forty-five thousandths
= $0.045 = 9/200 =$ nine over two hundred
fifteen hundredths
= $0.15 = 3/20 =$ three twentieths
eleven and four tenths
= $11.4 = 57/5 =$ fifty-seven fifths
two and five tenths
= $2.5 = 5/2 =$ five halves

DAY 54 Review: Expressions

- | | |
|----------------------------------|------------------------|
| B <i>First 5 answers:</i> | <i>Next 6 answers:</i> |
| 8^5 | 80 |
| 27 | 320 |
| 32 | 23 |
| 5 | 61 |
| 18 | $7x + 4y$ |
| | $3y - 1$ |

DAY 54 Practice

- A** False, True, True, False, False
- B** 15 7
2 32
- C** 70 144
45 280
156 480
- D** 53 15 3
- E** $3x + 8$ $4x + 5$
 $3xy + 4x$ $6x^2 - 5x$

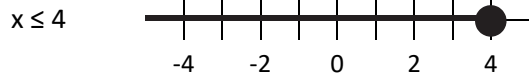
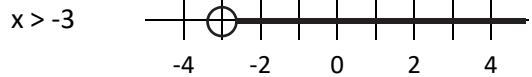
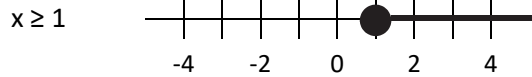
DAY 55 Review: Equations and ...

- B** $x = 27$ $x = 15$ $x = 54$
 $x < 43$ $x \geq -20$ $x \geq -9$
- $0.8x = 28$ 35 mangos
 $1.5x \leq 27.3$ 18 notebooks

DAY 55 Practice

A $x = 17$ $x = 65$ $x = 40$

B



C $y = -2x$ $y = (1/7)x$
 $y = 3x$ $y = (-1/4)x$

D $24x = 168$ $x + 17 = 35$
 7 months 18 dollars
 $x/4 = 30$ $x - 9 = 15$
 120 ounces 24 °C

DAY 56 Review: Area and Volume

B 48 cm 36 in²
 126 cm² 1,000 in³, 600 in²
 1350 in³, 750 in²
 264 in³, 312 in²

DAY 56 Practice

- A** True, True, True, False, False
B 54 cm
 23.9 in
 9 in
 6 m
 448 cm²
 2 ft
 144 in²
C 198 cm³, 294 cm²

DAY 57 Review: Statistics

- B** Min = 1, Q1 = 2, Q2 = 2, Q3 = 4.5, Max = 6
 Mean = 3, Median = 2, Mode = 2
 Range = 5, IQR = 2.5, MAD = 1.5

Stem	Leaf	Range = 27
0	2, 3, 5	Q1 = 5
1	0, 1, 2, 2, 4	Q2 = 11.5
2	4, 9	Q3 = 14

DAY 57 Practice

A 2 3 5 7 9
 7 8 12 15 18
 1 2 4 5 7
 4 6.5 11.5 17 22

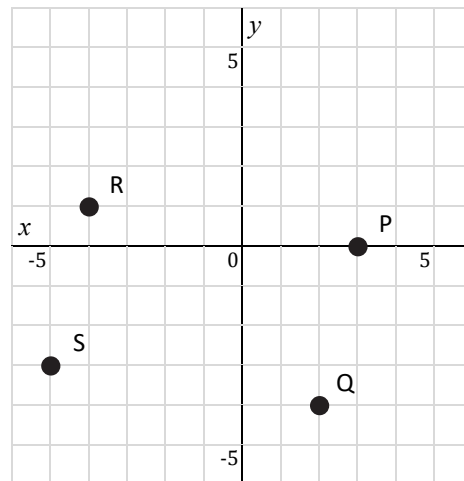
B 4.6 5 5
 8 7.5 6
 12 10.5 16
 5.4 5.5 9

C 7 2.4
 7 2
 13 3.5
 8 2.6

- D** 20 people
 68 years old
 Range = 46, Q1 = 31.5, Q2 = 42, Q3 = 49.5

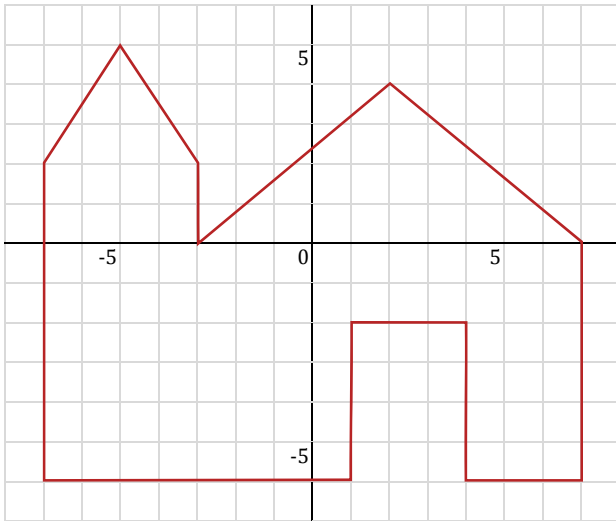
DAY 58 Review: Rational Explorations

B 0 3 14
 5 3 0
 A(4, 2) B(-2, 4)
 C(-3, 0) D(1, -3)



DAY 58 Practice

- A** False, True, True, True, False
B 8, -13, -1, -16, 5
C Area = 106 square units



DAY 59 Catch up and Review!

- B** 15 26
 0 4
- C** $x = 15$ $x = 44$ $x = 82$
 $x = 84$ $x = 15$ $x = 144$
- D** (-4, 4) (1, 3)
 (0, -2) (1, -4)
 (3, -3) (4, 0)
 (-2, 0) (-3, -3)
 (-5, 2) (5, 4)
- E** 3 7 30 18

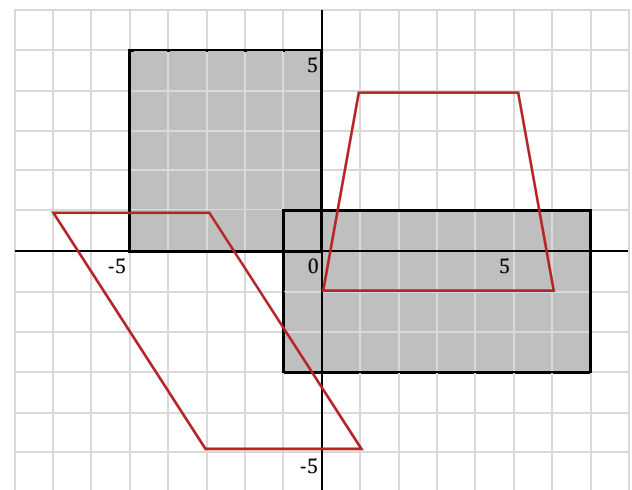
DAY 59 Practice

- A** $9 + 8 \times (3 - 2) = 17$
 $(6 + 3) \times 7 - 4 \times 9 = 27$
 $16 - (7 + 5) \div 4 = 13$
 $15 + (10 - 5) \times 6 \div 2 = 30$

B

$\boxed{7} - \boxed{5} = 2$	$\boxed{64} \div \boxed{4} = 16$	$\boxed{55} - \boxed{19} = 36$
+ ×	÷ ×	+ ×
$\boxed{3} + \boxed{9} = 12$	$\boxed{8} + \boxed{9} = 17$	$\boxed{16} \times \boxed{5} = 80$
10 $\boxed{45}$	$\boxed{8}$ 36	$\boxed{71}$ 95

- C** Square: (0, 5) Parallelogram: (-3, -5)
 Rectangle: (7, -3) Trapezoid: (0, -1)



- D** 25 32 24 25

DAY 60 Catch up and Review!

- B** 0.75 inches/hour 16 seats/row
 28 miles/gallon 73 heartbeats/minute
- C** Karen: 6 21 Team: 128 8
 4 14 80 5
 10 35 48 3
- D** 105 in^3 , 142 in^2 480 in^3 , 416 in^2
 240 ft^3 , 300 ft^2 168 in^3 , 190.4 in^2

DAY 60 Practice

A 3:5 3:4 5:3
2:7 2:3 2:3

B \$26/gallon \$24/gallon
\$0.24/inch \$0.25/inch

C 343 in³, 294 in²
300 in³, 280 in²
270 cm³, 330 cm²

D 84 in³, 114 in²

DAY 61 Number Properties

B e, b, d, g, i
a, h, f, c, h, g

DAY 61 Practice

A Answers will vary.

B distributive, commutative, identity,
associative, inverse, commutative, associative

C

	O	
O	O	

D $6 \times 4 + 6 \times 7 = 6 \times (4 + 7) = 6 \times 11$
 $7 \times 3 + 7 \times 4 = 7 \times (3 + 4) = 7 \times 7$
 $27 \times 3 + 27 \times 2 = 27 \times (3 + 2) = 27 \times 5$

DAY 62 Integer Representations

A $|-15| = 15$, so the opposite of $|-15|$ is -15 .

B $-15/2$ -0.03 $3 \frac{2}{5}$ 1.1

C -5 +10
+380 -25
-200 -320
+400 +18

D Highest: Alaska, Lowest: California
14,784 feet
Alaska
-279, -8, 0, 455, 713

DAY 62 Practice

A 2.1 -5/3 -4.9 $3 \frac{1}{7}$

B +240 -14
+485 -35
-110 -28

C +8 8 degrees above zero
-23 23 feet below sea level
-30 A loss of 30 yards
+50 50 steps forward

D Pluto
321 °F
Mercury
-400, -226, -136, -129, 864

DAY 63 Operations with Integers

B 5 -6 -53
-63 -1 43
14 -20 4

C 44 17
-31 25

D -12
10 °C
\$110
-6

DAY 63 Practice

A False, True, False, True

B 8 1 364
-8 -45 -28
5 -1 -44
-49 -13 12

C 8 45
-4 10

D 320 feet
9 °C
-72
-21

DAY 64 Operations with Integers

- C** 11 -4 -3
 -3 -10 -15
 35 -24 49
 -9 -6 7
- D** 1 -19
 -91 -4
 -29 15
- E** -17 -15
 -5 0

DAY 64 Practice

- A** False, False, True, True, True
- B** 1 -12 -9
 6 -4 3
 30 -32 63
 -8 19 -9
- C** -47 -12
 -6 -26
- D** 30 -27
 0 6

DAY 65 Fractions and Decimals

- C** $0.\bar{3}$ $0.\bar{4}$ $0.\overline{63}$ 0.75
 $0.8\bar{3}$ 0.8 0.45 $0.6\bar{1}$

Rotate the equation by 180 degrees. $16 = 8 + 8$

DAY 65 Practice

- A** $\frac{3}{4}$ 0.75
 $\frac{2}{9}$ $0.\bar{2}$
 $5\frac{2}{3}$ $5.\bar{6}$
 $2\frac{1}{8}$ 2.125
- B** $0.\bar{7}$ $1.\bar{6}$ 0.15 $0.7\bar{2}$
 0.6 $1.\bar{3}$ $0.4\bar{6}$ 0.22
 0.625 $0.1\bar{6}$ 0.36 $0.4\bar{8}$

DAY 66 Fractions and Decimals

- B** $\frac{1}{2}$ $\frac{8}{25}$
 $3\frac{2}{5}$ $4\frac{1}{8}$
 $\frac{3}{50}$ $7\frac{49}{500}$
 $1\frac{7}{20}$ $3\frac{9}{40}$
- C** 0.8 0.375 $1.1\bar{6}$ 1.4

DAY 66 Practice

- A** $\frac{1}{5}$ $6\frac{3}{4}$
 $1\frac{3}{5}$ $\frac{1}{250}$
 $\frac{1}{20}$ $7\frac{6}{125}$
 $2\frac{3}{25}$ $5\frac{5}{8}$
- B** $0.\bar{1}$ 1.75 0.62 1.8
 0.375 $0.\bar{5}$ 1.75 0.625

DAY 67 Operations with Decimals

- C** 13.25 -4.804
 -320.46 -12.2
 3.5 -20.15
 -0.379 -608.88
 0.2044 -0.8
 \$10.81
 -2.5 °C
 \$2.50/gallon

DAY 67 Practice

- A** -17.64 -2.023
 -1.422 5.25
 0.958 64.904
 -0.34 0.815
 2.033 -39.848
 0.78 -4.56
 2.1489 -24.8
 \$35.14
 149.86 cm
 \$7.25

DAY 68 Operations with Decimals

- A** The first, fourth, and fifth expressions.
 See Day 9 for placing the decimal point in the product.
- B** 29.1 -13.978
 -18.2 -0.588
 -22.48 3.797
 16.91 5.194
 -8.732 -261.8
 9.828 -0.504
 0.08 -0.29
 0.4 -3.8

DAY 68 Practice

A -8.15 -16.5
 7.98 -15.35
 -16.76 8.132
 -1.82 25.65
 -54.81 -0.64
 24.48 99.448
 -0.9 -1.4
 0.18 -8.9
 -20 4.8

DAY 69 Adding and Subtracting ...

C $-\frac{2}{3}$ $-1\frac{1}{3}$
 $-1\frac{7}{20}$ $-\frac{1}{12}$
 $5\frac{3}{4}$ $3\frac{3}{7}$
 $-1\frac{1}{5}$ $-3\frac{1}{3}$
 $2\frac{5}{8}$ $4\frac{11}{18}$

DAY 69 Practice

A $>, <, <, <$
B $\frac{2}{7}$ $-1\frac{1}{4}$
 $-\frac{1}{12}$ $-\frac{8}{45}$
 $-1\frac{7}{24}$ $-1\frac{1}{4}$
 $4\frac{5}{7}$ $-\frac{5}{6}$
 $\frac{2}{7}$ $3\frac{3}{8}$
 $1\frac{1}{5}$ $3\frac{3}{7}$
 $1\frac{1}{12}$ $-8\frac{5}{12}$
 $-3\frac{13}{24}$ $-2\frac{11}{18}$

DAY 70 Adding and Subtracting ...

B $3\frac{3}{2}$ $4\frac{9}{7}$ $1\frac{8}{5}$ $2\frac{14}{9}$
B $-\frac{2}{9}$ $-1\frac{1}{4}$
 $\frac{1}{9}$ $1\frac{5}{14}$
 $\frac{5}{12}$ $-17\frac{24}{24}$
 $-4\frac{1}{6}$ $-4\frac{3}{5}$
 $1\frac{2}{7}$ $5\frac{7}{9}$
 $\frac{3}{4}$ $4\frac{2}{3}$
 $1\frac{1}{3}$ $6\frac{11}{24}$

DAY 71 Practice

A $\frac{1}{5}$ 1
 $\frac{5}{14}$ $-1\frac{7}{15}$
 $-1\frac{1}{18}$ $-1\frac{3}{8}$
 $3\frac{2}{3}$ $5\frac{5}{7}$
 $-5\frac{3}{7}$ $-5\frac{3}{5}$
 $3\frac{2}{5}$ $\frac{4}{9}$
 $-2\frac{1}{12}$ $-\frac{13}{14}$
 $1\frac{4}{15}$ $8\frac{19}{30}$
 $-6\frac{3}{8}$ $-8\frac{2}{21}$

DAY 71 Multiplying Fractions

C $-\frac{2}{5}$ $-\frac{2}{9}$
 $2\frac{1}{2}$ $3\frac{1}{3}$
 $-2\frac{2}{9}$ $-1\frac{11}{26}$
-3 $-\frac{2}{3}$
 $22\frac{2}{3}$ $37\frac{1}{2}$
 $-16\frac{1}{2}$ $-46\frac{2}{3}$
 $-18\frac{2}{3}$ $-3\frac{1}{3}$
9 -7

DAY 72 Practice

A $\frac{21}{5}$ $\frac{53}{8}$ $-\frac{38}{9}$ $-\frac{27}{7}$
B $-\frac{1}{12}$ $-\frac{3}{14}$
 $3\frac{3}{5}$ $-5\frac{1}{4}$
-4 $-1\frac{1}{8}$
 $-3\frac{1}{5}$ $2\frac{5}{6}$
 $-17\frac{1}{3}$ $-17\frac{1}{2}$
 $16\frac{1}{2}$ 65
-2 $-2\frac{4}{9}$
 $-4\frac{1}{8}$ 4

DAY 72 Multiplying Fractions

A The second, third, and fourth expressions.
 Note that a fraction is a division statement where the numerator is divided by the denominator.

B $-\frac{1}{3}$ $-\frac{1}{12}$
 $3\frac{1}{3}$ $-4\frac{2}{3}$
 $-3\frac{3}{4}$ $-2\frac{1}{3}$
 $-2\frac{4}{9}$ $1\frac{1}{10}$
 $9\frac{1}{2}$ $-36\frac{2}{3}$
-15 $-49\frac{1}{2}$
-14 $4\frac{7}{8}$
 $-9\frac{1}{3}$ $5\frac{1}{16}$

DAY 72 Practice

- A** $-1/6$ $-3/20$
 $6\ 2/3$ $5\ 5/6$
 -2 $-1\ 13/15$
 $-3\ 1/3$ $-1\ 13/27$
 -19 $19\ 1/2$
 $19\ 1/3$ $-95\ 2/3$
 $-3\ 3/5$ -6
 -4 6
 $-13\ 1/2$ $2\ 2/5$

DAY 73 Dividing Fractions

- B** $-1\ 1/9$ $-1\ 7/8$
 $9\ 1/3$ -84
 $-1/15$ $1/36$
 $-2/5$ $-16/225$
 $4\ 2/3$ $-5\ 1/3$
 $-5/7$ $-1\ 5/6$
 $1\ 2/3$ $-14/15$
 -2 4

DAY 73 Practice

- A** $-2\ 2/3$ $-27/32$
 $-1/10$ $-5\ 1/3$
 $-1\ 1/4$ $1/7$
 $3/8$ $-5\ 5/7$
 $-7\ 1/2$ $5/21$
 $-1\ 7/8$ $-1\ 1/6$
 $-7/27$ $-2/5$
 $-9/10$ $1\ 1/4$
 $2\ 4/25$ $-6/7$

DAY 74 Rounding and Dividing ...

- B** 20 15 15.1 15.09
 360 365 365 364.96
 7820 7820 7819.6 7819.61
- C** 1 0.8
 -2 -2.7
 -16 -15.5
 -11 -11.4
 8 7.8
 16 16.2
 -8 -7.95
 -2 -1.9

DAY 74 Practice

- A** 10 5 5.2 5.21
 10 11 11.1 11.07
 30 29 28.6 28.59
 110 105 105 105.01
 4300 4296 4296.3 4296.29
- B** -9 -9.5
 -2 -1.99
 8 7.6
 15 15.3
 -7 -6.75
 -14 -15.8
 -5 -5.05
 -9 -9.48
- C** \$0.45
 8 CDs

DAY 75 Integers and Rational Numbers

- A** You can turn any integer into a fraction by putting it over the number 1.
- B** -70 140 6
 63 720 -123
 -9 0 7
- C** Distributive property
 Commutative property
 Inverse property
 Identity property
- D** Absolute value is always positive because it refers to a distance. See Day 48, Part A.
- E** Answers will vary. See Days 62 and 63.
- F** 8, -8
 2,160 feet
 9th floor
 -6 °C

DAY 75 Practice

A True, False, True, True, True

B

-8	×	3	=	-24	5	+	-9	=	-4	3			
+			÷		×		÷			-			
5		-7	-	-4	=	-3	-3		-6	-	8	=	-14
=		+		=		=		=	×		=		+
-3	-	-9	=	6	-15	÷	3	=	-5	-5		4	
		=				=					=		
		-16	÷	2	=	-8	30	÷	-3	=	-10		

- C** -82 feet
48 feet
3 minutes
18 minutes

DAY 76 Integers and Rational Numbers

B -0.643 -3.25
2 5/12 11 2/3

C 35 -2.8
-4 -1.25

D 4/5
\$43.92
3 gallons
7 1/2
44 miles

DAY 76 Practice

A True, False, False, False, True

B 1st square: 8 -32 -24
 -48 -16 16
 -8 0 -40

2nd square: 0.83 -0.22 -0.01
 -0.64 0.2 1.04
 0.41 0.62 -0.43

3rd square: -1/4 -4 -3 1/4
 -5 1/2 -2 1/2 1/2
 -1 3/4 -1 -4 3/4

C First 4 answers: Next 3 answers:
0.5 3 7/8 mi
3/4 4 inches
44 feet 9/10 cup
137.28 mi

DAY 77 Project: Fractions and ...

A 1/2 Prime 0.5 Terminates
1/3 Prime 0.3333... Repeats
1/4 2 x 2 0.25 Terminates
1/5 Prime 0.2 Terminates
1/6 2 x 3 0.16666... Repeats
1/7 Prime 0.142857... Repeats
1/8 2 x 2 x 2 0.125 Terminates
1/9 3 x 3 0.111111... Repeats
1/10 2 x 5 0.1 Terminates
1/11 Prime 0.090909... Repeats
1/12 2 x 2 x 3 0.083333... Repeats
1/13 Prime 0.076923... Repeats

- B** ■ 1/2, 1/4, 1/5, 1/8, 1/10
■ The prime factors of their denominators are only 2s and 5s.
■ Answers will vary. Sample: 1/20 will result in a terminating decimal because 20 = 2 x 2 x 5.
■ 1/3, 1/7, 1/11, 1/13
■ They will be repeating decimals unless the denominator is 2 or 5.
■ Answers will vary. Sample: 1/15 will result in a repeating decimal because 15 = 3 x 5.

C Repeats Terminates Terminates
Terminates Repeats Terminates

DAY 78 Translating Words to...

C 15 - k 4k - 9
7k 2 - 3k
5 + 2k 8 + k/3
4k - 6 k/5 - 9
7k + 5 5(k + 3)

DAY 78 Practice

A $w + 6$ $3w + 4$
 $8w$ $w/2 - 5$
 $16 - w$ $7w + 9$
 $w/7$ $2(w - 5)$
 $4w + 6$ $3(2w + 9)$

B $g + 4 = 9 - 3$ $3h = 7 + 2$
 $g = 2$ $h = 3$
 $8 - 5 = k - 4$ $m/6 = 2 \times 5$
 $k = 7$ $m = 60$
 $5 \times 6 + 1 = p - 20$ $n + 4 + 2 = 8 + 7 - 5$
 $p = 51$ $n = 4$
 $7 \times 8 - 6 = 5y$ $u - 7 = 3 + 12/4$
 $y = 10$ $u = 13$

DAY 79 Simplifying Expressions

E *First 5 answers:* *Next 6 answers:*
 $7x - 7$ $-22x + 44$
 $9x - 3$ $3x + 35$
 $8x + 19$ $7x^2 - x + 2$
 $-x + 2y$ $-8x + y$
 $6x + 3$ $2x^2 + 2x + 6$
 $-8x + 12$

DAY 79 Practice

A *First 5 answers:* *Next 5 answers:*
 $7x + 1$ $6x - 4$
 $5x - 2$ $6x - 3y - 9$
 $7x - 9$ $5x + 5y$
 $-12x + 36$ $3x^2 + x$
 $-3x - 3$ $5x^2 - 7x$

B $5 + m + 9 = m + 14$ $8 - m/6$
 $2 + m - 7 = m - 5$ $9(2m - 3) = 18m - 27$

C $2(x + 4) + 2(x + 4)$ $2(x + 4) + 2(9 - x)$
 $= 4x + 16$ $= 26$

$2(2x + 5y) + 2(3x - 2)$ $2(3x + 4y) + 2(5y - 4)$
 $= 10x + 10y - 4$ $= 6x + 18y - 8$

DAY 80 Factoring Expressions

A $36 + 42 = 6 \times 6 + 6 \times 7 = 6 \times (6 + 7) = 6 \times 13$

B $3(2x - 3)$ $4(5 + 4y)$
 $7(3 - x)$ $5(3x - 7y)$
 $2(4x + 5)$ $9(7y + 2x)$

C

	O	O
O	O	O
O		O

D $3m - 7$ $n/7 + 15$
 $5(p + 8) = 5p + 40$ $4(6 - q) = 24 - 4q$

E $n/4$ $2.39m$
 $3(x + 4) = 3x + 12$ $11(11 - p) = 121 - 11p$

DAY 80 Practice

A $2(4x + 3)$ $12(3 - 2x)$
 $6(x - 7)$ $3(9 + 4y)$
 $4(4y - 1)$ $4(5x + 2y)$
 $7(4x + 3)$ $5(7x - 9y)$

B

O	O	O
O	O	
O		O
O	O	

C $7p - 6$ $s + 5 + 9 = s + 14$
 $4(x - 7) = 4x - 28$ $(2y + 8)/2 = y + 4$
 $5(u + 6) = 5u + 30$ $k/9 + 12$

D $55h$ $60/t$
 $3(10x + 5) = 30x + 15$ $2k + 2(k - 4) = 4k - 8$

DAY 81 One-step Equations with ...

A *1st equation:* Subtract 4 from both sides.
 $x = 5$

2nd equation: Add 6 to both sides.
 $k = 13$

3rd equation: Divide both sides by 9.
 $n = 8$

4th equation: Multiply both sides by 5.
 $s = 40$

C $x = -13$ $x = 1$ $x = -9$
 $x = 61$ $x = -32$ $x = 3$
 $x = -114$ $x = 4$ $x = 77$

D $12x = 48$ $6 * 5 = 16 + x$
 4 hours 14 problems

DAY 81 Practice

A $x = -13$ $x = 11$ $x = -5$
 $x = -77$ $x = 83$ $x = 17$
 $x = 90$ $x = -15$ $x = 25$
 $x = 9$ $x = -99$ $x = -84$

B $m/-3 = 8$ $k + -7 = 5 - 20$
 $m = -24$ $k = -8$

C $-135 + x = -50$ $6 + 8 + 5 + x = 28$
85 feet 9 centimeters

DAY 82 One-step Equations with ...

A Incorrect. To check the solution, substitute 9 for x . $13 * 9$ is 117, not 104.

B $x = -14$ $x = 4$ $x = 2$
 $x = 24$ $x = -5$ $x = 31$
 $x = 7$ $x = 0$ $x = -25$
 $x = -51$ $x = -10$ $x = 6$
 $x = -51$ $x = 26$ $x = 7$
 $x = -95$ $x = -19$ $x = 120$
 $x = -9$ $x = -1190$ $x = 420$

DAY 82 Practice

A $x = -4$ $x = 24$ $x = -4$
 $x = -9$ $x = -8$ $x = -17$
 $x = -112$ $x = 25$ $x = 161$
 $x = 20$ $x = -800$ $x = 24$

B $8 + (-4) = p - 5$ $n/5 = 42/-7$
 $p = 9$ $n = -30$

C $4x = 32$ $18 + 25 = 9 + x$
8 inches 34 crayons

DAY 83 One-step Equations with ...

B *1st equation:* Subtract 0.4 from both sides.
 $x = 0.5$

2nd equation: Add 0.6 to both sides.
 $k = 1.3$

3rd equation: Divide both sides by 0.9.
 $n = 8$

4th equation: Multiply both sides by 0.5.
 $s = 0.4$

C $x = 14.95$ $x = 12.93$ $x = 9.56$
 $x = -5.3$ $x = 0.4$ $x = -32$
 $x = 0.48$ $x = -35.84$ $x = 13.78$

D $2.5x = 8$ $-4.5 + x = 3.7$
3.2 buckets 8.2 °C

DAY 83 Practice

A $x = 2.74$ $x = 2.82$ $x = 16.02$
 $x = 3.6$ $x = 9.98$ $x = -12.87$
 $x = -11.72$ $x = -500$ $x = -0.4$
 $x = 0.3$ $x = 20$ $x = -87.6$
 $x = 0.8$ $x = -4.32$ $x = 3.92$

B $0.92x = 23$ $x - 24.99 = 15.80$
25 problems 40.79 dollars

DAY 84 One-step Equations with ...

A $x = 2/5$ $x = 1 1/7$ $x = 2$
 $x = 2 2/7$ $x = 11/18$ $x = 19/20$
 $x = -7/20$ $x = -15$ $x = -1 1/2$
 $x = 5 1/6$ $x = -2 11/12$ $x = 1 13/36$

B $x/8 = 3/4$ $x + 2 1/3 = 8 5/6$
6 inches 6 1/2 cups

DAY 84 Practice

A $x = -2.24$ $x = -1.8$ $x = -0.6$
 $x = -1/9$ $x = 1 7/30$ $x = 2 1/2$
 $x = 9/28$ $x = -9/16$ $x = 1 5/14$
 $x = -11 2/3$ $x = 3 3/10$ $x = -1 1/15$
 $x = 6$ $x = 5 3/4$ $x = -7 5/12$

B $x + 1 3/4 = 6$ $(3/5)x = 27 * 4/9$
4 1/4 pizzas 20 dollars

DAY 85 Two-step Equations with ...

B $x = 7$ $x = 12$ $x = -9$
 $x = -5$ $x = -8$ $x = 16$
 $x = 21$ $x = 15$ $x = 11$

DAY 85 Practice

A $x = 4$ $x = 16$ $x = 7$
 $x = -8$ $x = 12$ $x = 15$
 $x = 31$ $x = -9$ $x = -4$
 $x = -21$ $x = 27$ $x = -126$
 $x = 15$ $x = 7$ $x = -8$

DAY 86 Two-step Equations with ...

B $x = 4$ $x = 8$ $x = 1.5$
 $x = -4$ $x = -3.2$ $x = 0.2$

C $x = -3/4$ $x = 1 1/4$ $x = 9 7/12$
 $x = -2/3$ $x = -4$ $x = -9$

DAY 86 Practice

A $x = -2$	$x = 5$	$x = -6.7$
$x = 0.6$	$x = 5$	$x = 0.3$
$x = 3 \frac{7}{9}$	$x = -4 \frac{1}{21}$	$x = \frac{1}{35}$
$x = \frac{1}{4}$	$x = 9 \frac{1}{24}$	$x = -4 \frac{2}{3}$
$x = 2 \frac{1}{2}$	$x = 2 \frac{7}{32}$	$x = 6 \frac{1}{11}$

DAY 87 Multi-step Equations

A $3x - 3$	$4x + 17$	$-6x + 21$
B $x = -7$	$x = 8$	$x = -3$
$x = -2$	$x = 9$	$x = 5$
$x = 4$	$x = -3$	$x = 6$
$x = 9$	$x = 0$	$x = -2$

DAY 87 Practice

A $x = 5$	$x = 3$	$x = -6$
$x = 8$	$x = -3$	$x = 7$
$x = -3$	$x = -5$	$x = -17$
$x = -2$	$x = -2$	$x = 11$
$x = 9$	$x = 2$	$x = -24$

DAY 88 Equations with Variables on ...

B $x = -4$	$x = 6$	$x = 5$
$x = -2$	$x = 2$	$x = 3$
$x = -3$	$x = -3$	$x = -2$

DAY 88 Practice

A $x = -1$	$x = -8$	$x = 0$
$x = 2$	$x = -5$	$x = -7$
$x = 3$	$x = 2$	$x = 16$
$x = 3$	$x = 3$	$x = -3$
$x = 1$	$x = 3$	$x = 4$

DAY 89 Equations with Variables on ...

A $15x + 27 = 7 - 5x$
 $20x + 27 = 7$
 $20x = -20$
 $x = -1$

B $x = -5$	$x = 6$	$x = 4$
$x = 9$	$x = -1$	$x = -2$
$x = 4$	$x = -2$	$x = 4$
$x = 0$	$x = 3$	$x = -3$

DAY 89 Practice

A $x = -5$	$x = 2$	$x = -6$
$x = 9$	$x = 6$	$x = -5$
$x = 4$	$x = -4$	$x = -3$
$x = 2$	$x = -3$	$x = 5$
$x = -4$	$x = 3$	$x = -9$

DAY 90 Review: Equations of All Types

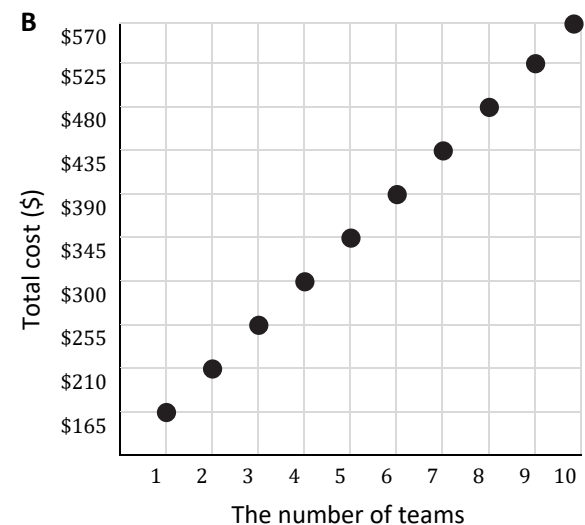
C $x = -32$	$x = 7.95$	$x = -1.8$
$x = -70$	$x = -1/2$	$x = 1 \frac{11}{20}$
$x = 3$	$x = -8$	$x = 0.85$
$x = -45$	$x = 1/3$	$x = 1 \frac{4}{7}$
$x = -2$	$x = -5$	$x = -2$

DAY 90 Practice

A $x = -9$	$x = -2.4$	$x = -3.14$
$x = 84$	$x = -1/9$	$x = 3 \frac{3}{5}$
$x = 13$	$x = -3$	$x = 1.2$
$x = -7$	$x = 5/8$	$x = -1 \frac{1}{6}$
$x = -2$	$x = -1$	$x = 3$
$x = 1$	$x = -1/2$	$x = -4$

DAY 91 Project: Algebraic Equations

A 2	\$120	\$60	\$30	\$210
3	\$120	\$90	\$45	\$255
4	\$120	\$120	\$60	\$300
5	\$120	\$150	\$75	\$345
6	\$120	\$180	\$90	\$390
7	\$120	\$210	\$105	\$435
8	\$120	\$240	\$120	\$480
9	\$120	\$270	\$135	\$525
10	\$120	\$300	\$150	\$570



DAY 91 Project: Algebraic Equations

- C**
- Connecting the Dots does not make sense in this situation, because the number of teams can't be between counting numbers.
 - $C = 120 + 45n$ where C = total cost and n = the number of teams.
 - $C = 120$ when $n = 0$. The cost is just for renting a conference room.
 - Using the table: $120 + 450 + 225 = 795$
Using the formula: $120 + 45 \cdot 15 = 795$
 - 21 teams
 - 25 teams participating: \$5.80 per team
40 teams participating: \$20.50 per team
50 teams participating: \$25.40 per team

DAY 92 Catch up and Review!

- B**
- | | |
|------------------|---------------------|
| -3 | $x = 126$ |
| 1.2 | $x = 8.16$ |
| $2\frac{5}{8}$ | $x = 1\frac{1}{30}$ |
| $-18\frac{2}{3}$ | $x = -90$ |
| -2 | $x = -8\frac{2}{3}$ |

DAY 92 Practice

A

4	5		7	4
	2	1	3	
6		5		2
3	8		1	2
2		4	6	

- B** $x = 1.6$ $x = -0.9$ $x = -2.9$
 $x = 1\frac{2}{9}$ $x = -1\frac{7}{8}$ $x = -6/11$
- C** Circle = 1, Pentagon = 8, Star = 5

DAY 93 Addition and Subtraction ...

A The first and third inequalities.

- B**
- | | | |
|------------------------|----------------------|-------------------------|
| $x > 15$ | $x \leq 44$ | $x \leq -62$ |
| $x \leq 3.26$ | $x > -6.18$ | $x \leq 22.5$ |
| $x < -1/4$ | $x \geq -5/24$ | $x > 2/9$ |
| $x \geq 1\frac{1}{10}$ | $x < -1\frac{5}{12}$ | $x \leq 1\frac{10}{21}$ |
- C** $32 + x < 50$ $11 + x \geq 20$
 $x < 18$ $x \geq 9$
Fewer than 18 coins At least 9 miles

DAY 93 Practice

- A**
- | | | |
|-----------------------|-----------------------|-----------------------|
| $x > 9$ | $x \geq -4$ | $x < 8$ |
| $x \leq 1.5$ | $x < 2.3$ | $x > -5.8$ |
| $x < 3/20$ | $x \geq 1\frac{1}{8}$ | $x \geq 1/12$ |
| $x \geq 2\frac{3}{4}$ | $x \leq 1\frac{1}{6}$ | $x < -1\frac{13}{15}$ |
- B**
- | | |
|---------------------|-------------------------------|
| $47 + x \geq 70$ | $1,190 + x \leq 3,000$ |
| $x \geq 23$ | $x \leq 1,810$ |
| At least 23 dollars | Up to 1,810 pounds |
| $18 + x \leq 45$ | $87 + 88 + x \geq 90 \cdot 3$ |
| $x \leq 27$ | $x \geq 95$ |
| At most 27 dollars | At least 95 |

DAY 94 Multiplication and Division ...

A The second and third inequalities.

- B**
- | | | |
|---------------|------------------------|------------|
| $x < 9$ | $x \leq -4$ | $x < -112$ |
| $x < -8$ | $x > -0.75$ | $x > 2.7$ |
| $x \geq -0.7$ | $x \leq -2.5$ | $x > 8.8$ |
| $x < -68$ | $x \leq -4\frac{1}{5}$ | $x < 5$ |
- C** $2x \leq 25$ $(5 \cdot 8)x > 120$
 $x \leq 12.5$ $x > 3$
At most 12 cookies Greater than 3 cm

DAY 94 Practice

- A**
- | | | |
|----------------|---------------|------------------------|
| $x < -9$ | $x < 7$ | $x \geq -7$ |
| $x \leq -1.85$ | $x \geq -0.5$ | $x > 2.6$ |
| $x > -14$ | $x > 189$ | $x \leq -1\frac{2}{7}$ |
| $x \leq -27$ | $x < 1/9$ | $x > 1\frac{1}{3}$ |
- B** $12x \geq 180$ $6x \leq 54$
 $x \geq 15$ $x \leq 9$
At least 15 hours No more than 9 inches
 $20 - x > 2$ $14 < (1/2)x$
 $x < 18$ $28 < x$
Less than 18 dollars More than 28 problems

DAY 95 One-step Inequalities

- B**
- | | | |
|---------------------|-----------------|---------------------|
| $x > -24$ | $x > -8$ | $x > -60$ |
| $x \leq 9$ | $x \leq 41$ | $x > -0.6$ |
| $x \geq 7/12$ | $x \geq 81$ | $x < -1\frac{7}{8}$ |
| $x \leq -171$ | $x \geq -11/12$ | $x > 1/8$ |
| $x < -8\frac{1}{2}$ | $x \leq 6$ | $x \geq -1/10$ |

DAY 95 Practice

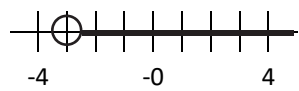
- A** $x < 43$ $x \leq 14$ $x \geq -9$
 $x > -0.3$ $x \leq -9.1$ $x \geq 25$
 $x \leq 6.59$ $x \geq -2.25$ $x > -4.03$
 $x < 80$ $x < -5/24$ $x \geq -1 \frac{5}{9}$
 $x \geq -2/15$ $x \leq 192$ $x \leq -1 \frac{3}{5}$
 $x \geq -2/21$ $x \geq 4 \frac{7}{9}$ $x < 4 \frac{2}{3}$
 $x \geq 17 \frac{1}{2}$ $x > -3 \frac{1}{8}$ $x < -4 \frac{3}{4}$

DAY 96 Multi-step Inequalities

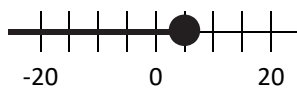
A The second inequality.

B

$$x > -3$$



$$x \leq 5$$

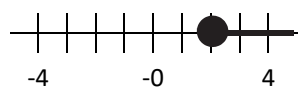


- C** $x \leq -4$ $x > 1.7$ $x > -2 \frac{1}{2}$
 $x < 3$ $x \leq 3/5$ $x < 1.1$

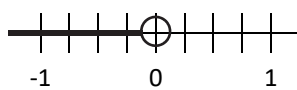
DAY 97 Practice

A

$$x \geq 2$$



$$x < 0$$



- B** $x \leq -6$ $x > -9$ $x \leq -2$
 $x < -3.8$ $x \geq 41$ $x > 1.68$
 $x \leq 15$ $x < -3$ $x \geq 3 \frac{1}{4}$
 $x < 1/5$ $x \geq 8$ $x \geq 1/2$

DAY 97 Inequalities with Variables on ...

- A** $10 - 6x \leq 2x - 6$
 $10 - 8x \leq -6$
 $-8x \leq -16$
 $x \geq 2$
- B** $x > 1/3$ $x \leq 1$ $x > -3/5$
 $x \leq -2/3$ $x < 1 \frac{6}{7}$ $x > 1/3$
 $x < 1/2$ $x \leq -36$ $x < 7$
 $x < 6$ $x \geq -5/6$ $x < -2$

DAY 97 Practice

- A** $x > -2 \frac{1}{2}$ $x \leq 5/7$ $x > 1$
 $x > 3/4$ $x \geq 4/9$ $x < -2/5$
 $x < 2$ $x > -1/6$ $x \leq -1/4$
 $x < 1/2$ $x < 6$ $x \leq -40$
 $x > 11/15$ $x \leq -4$ $x < -2/7$

DAY 98 Unit Rates with Complex ...

- C** $2 \frac{1}{2}$ $3/28$
 $4/5$ $1 \frac{1}{3}$

D Yes, No, Yes

- E** $1/8$ gallon
Store P
Ella

DAY 98 Practice

- A** $4 \frac{2}{3}$ 15
 $1/12$ $3/40$
 $1 \frac{1}{5}$ $9/14$
- B** No, Yes, Yes, No
- C** 24 mph
Kyle
 $1 \frac{3}{4}$ cups
4 gallons
Amanda's car

DAY 99 Unit Rates with Complex ...

- A** Answers will vary.
- B** $2 \frac{1}{3}$ $1/10$
2 $1 \frac{5}{7}$
- C** 4 laps/minute 3.8 miles/hour
13 children/group \$15/hour
- D** 320 mph
21 miles
An 18-ounce box
0.38 pound

DAY 99 Practice

- A** 14 14 $\frac{2}{3}$
 2/27 1/36
 9/10 1 $\frac{1}{14}$
- B** 52 pages/day \$7.20/ticket
 27 points/game 60 miles/hour
- C** 55 mph
 A 2-pound can
 Mike's recipe
 Owen

DAY 100 Percent of Change

- A** Using multiplication: $20\% \times 55 = 0.2 \times 55 = 11$
 Using a proportion: $\frac{20}{100} = \frac{x}{55}$
 $100x = 110$
 $X = 11$
- C** +80% -40% +250%
- D** 42 204 119
- E** 12%
 25%
 Ali

DAY 100 Practice

- A** +50% +200% -30%
 -25% +150% -95%
- B** 403 33 238
 324 534 2,268
- C** 37.5%
 15%
 \$134.40
 Store M
 \$2,016
 38%

DAY 101 Percent of Change

- A** $80 - 15\% \text{ of } 80 = 80 - 0.15 \times 80 = 80 - 12 = 68$
- B**
- | From | To | % change |
|------|-------|----------|
| 50 | 8 | -84% |
| 25 | 60 | +140% |
| 75 | 15 | -80% |
| 84 | 126 | +50% |
| 12.5 | 30 | +140% |
| 24 | 19.2 | -20% |
| 710 | 852 | +20% |
| 0.9 | 6.3 | +600% |
| 440 | 330 | -25% |
| 120 | 128.4 | +7% |
- C** \$676
 15%
 10%
 \$24.80
 24 or 96%

DAY 101 Practice

- A**
- | From | To | % change |
|------|------|----------|
| 20 | 12 | -40% |
| 78 | 117 | +50% |
| 64 | 80 | +25% |
| 150 | 45 | -70% |
| 1100 | 11 | -99% |
| 50 | 37.5 | -25% |
| 16.8 | 42 | +150% |
| 8.4 | 2.1 | -75% |
| 36 | 55.8 | +55% |
| 5.5 | 24.2 | +340% |
- B** \$48.40
 15%
 16.7%
 32.5%
 27.8%
 Arizona

DAY 102 Commission, Tip, Sales Tax, ...

C	Sales	Rate	Commission
	\$480	15%	\$72
	\$1350	8%	\$108
	\$35,000	4.5%	\$1,575

D \$144
\$1.28
Store N
\$27

DAY 102 Practice

A	Sales	Rate	Commission	
	\$550	6%	\$33	
	\$2,200	9%	\$198	
	\$1,900	15%	\$285	
	Price	Rate	Tax	Total cost
	\$60	5%	\$3	\$63
	\$45	8%	\$3.60	\$48.60
	\$800	7%	\$56	\$856
	Price	Rate	Discount	Sale price
	\$30	10%	\$3	\$27
	\$50	25%	\$12.50	\$37.50
	\$72	40%	\$28.80	\$43.20

B \$410
\$56.64
\$3,840
12%
\$96.30
\$46.44

DAY 103 Commission, Tip, Sales Tax, ...

A Tip = 15% of \$36 = $0.15 \times \$36 = \5.40
Total bill = \$36 + Tip = \$36 + \$5.40 = \$41.40

B	Sales	Rate	Commission	
	\$810	9%	\$72.90	
	\$4,150	8.5%	\$352.75	
	\$17,900	6%	\$1,074	
	\$41,200	7.25%	\$2,987	
	Price	Rate	Tax	Total cost
	\$90	5.5%	\$4.95	\$94.95
	\$46.5	6%	\$2.79	\$49.29
	\$720	10%	\$72	\$792
	\$1,300	11%	\$143	\$1,443

(Continued on the next column.)

C \$39.10
\$45.84
5%
\$126
\$50.40
Store Q

DAY 103 Practice

A	Sales	Rate	Commission	
	\$6,500	4.25%	\$276.25	
	\$32,250	8%	\$2,580	
	\$51,000	9.5%	\$4,845	
	Bill	Rate	Tip	Total bill
	\$60	15%	\$9	\$69
	\$45	16%	\$7.20	\$52.20
	\$92.50	20%	\$18.50	\$111
	Price	Rate	Discount	Sale price
	\$40	15%	\$6	\$34
	\$70	25%	\$17.50	\$52.5
	\$80.90	30%	\$24.27	\$56.63

B \$192.60
6%
\$86.40
\$25.30
\$50.22
\$390.08

DAY 104 Simple Interest

A	Principal	Interest	Total amount
	\$120	\$28.80	\$148.8
	\$280	\$35	\$315
	\$165	\$11.55	\$176.55
	\$1,210	\$242	\$1452
	\$3,200	\$784	\$3984
	\$830	\$224.10	\$1,054.10
	\$300	\$108	\$408
	\$1,365	\$223.86	\$1,588.86

B \$750
4%
About 4.2 years

DAY 104 Practice

A	Principal	Interest	Total amount
	\$520	\$52	\$572
	\$1,410	\$42.30	\$1,452.30
	\$830	\$24.90	\$854.90
	\$400	\$60	\$460
	\$612	\$55.08	\$667.08
	\$524	\$20.96	\$544.96
	\$1,690	\$380.25	\$2,070.25
	\$3,000	\$630	\$3,630
	\$2,620	\$52.40	\$2,672.40
	\$700	\$154	\$854

- B** \$720
 \$360
 12%
 5 years
 \$24,120
 Mason

DAY 105 Simple Interest

A $I = Prt = \$650 \times 0.08 \times 3 = \156

B	Principal	Interest	Total amount
	\$500	\$20	\$520
	\$483	\$24.15	\$507.15
	\$1,500	\$78.75	\$1,578.75
	\$236	\$21.24	\$257.24
	\$700	\$49	\$749
	\$2,115	\$507.60	\$2,622.60
	\$449	\$107.76	\$556.76
	\$500	\$60	\$560
	\$3,000	\$90	\$3,090
	\$1,860	\$651	\$2,511

- C** \$176
 5%
 \$1,600
 Ella

DAY 105 Practice

A	Principal	Interest	Total amount
	\$824	\$16.48	\$840.48
	\$1,316	\$263.20	\$1,579.20
	\$500	\$18.75	\$518.75
	\$710	\$42.60	\$752.60
	\$650	\$13	\$663
	\$4,215	\$168.60	\$4,383.60
	\$900	\$72	\$972
	\$1,677	\$301.86	\$1,978.86
	\$2,900	\$81.20	\$2,981.20
	\$440	\$92.40	\$532.40

- B** \$160
 6%
 3 years
 \$135
 \$16,500
 \$108

DAY 106 Catch up and Review!

- B** $x = 5/12$ $x < -1/8$
 $x = 1 \frac{2}{5}$ $x \leq 10$
 $x = -2 \frac{1}{2}$ $x \geq 1.7$
 $x = -9$ $x < 1 \frac{3}{10}$

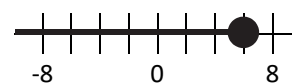
DAY 106 Practice

A

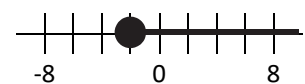
2		7	3	
1	4		3	6
0		2		4
	1	8	4	
5	4		2	7

B

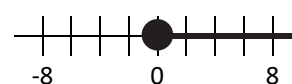
$3r + 11 \leq 29$
 $r \leq 6$



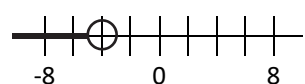
$27 \geq 17 - 5s$
 $s \geq -2$



$4(v + 3) \geq 14 - 2$
 $v \geq 0$



$9 - z/4 > 2^3 + 2$
 $z < -4$



C $1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 \times 9 = 100$

DAY 107 Catch up and Review!

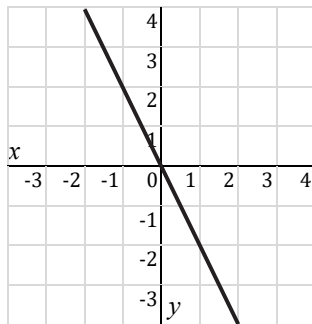
- B** $x = 15$ $x = 6$
 64 miles per hour
 20% decrease
 \$53.10
 \$300

DAY 107 Practice

- A** $x = 5 \frac{1}{3}$ $x = 12$
 $x = 12$ $x = 4 \frac{4}{5}$
 $x = 2 \frac{2}{3}$ $x = 13 \frac{3}{4}$
 $x = 3 \frac{1}{5}$ $x = 32$
- B** 220 words/page \$6.99/pound
 \$20/hour 28 miles/gallon
- C** 5, 20, 89

DAY 108 Direct Variation

D



F

$k = 1/2$	No	No	$k = -1$
No	$k = 5$		
$k = -5$		$k = 2/3$	

DAY 108 Practice

- A** $k = -9$ $k = 1/2$ No $k = -6$
 $k = 5$ No
 $k = -1/2$ $k = -7/3$
 $k = 1/2$ No $k = -3/2$ No
- B** $y = 3x$
 $y = 5.5x$
 $y = 18x$
 $y = 6x$

DAY 109 Direct Variation

- B** $k = -6$ No $k = 0.3$ $k = -2/5$
- C** $y = -3x$ No
 No $y = (1/7)x$
- D** $y = 2x$ No $y = -x$ $Y = (1/3)x$
- E** $y = 9x$ $y = (1/6)x$

DAY 109 Practice

- A** $k = 2$ No No $k = -3/4$
- B** $y = (1/2)x$ $y = 5x$
 $y = (1/6)x$ No
- C** $y = (-1/2)x$ No $y = (3/2)x$ No
- D** $y = -x$ $y = 0.3x$
 $y = 2x$ $y = (7/10)x$

DAY 110 Scale Factors of Similar Figures

- D** A, L C, E D, H F, J K, N
- E** 3 4
 3/4 5/7

DAY 110 Practice

- A** False, True, True, False, True
- B** The first, fourth, and fifth statements.
- C** 2 3/2
 3 1/5
 2/3 3/5

DAY 111 Proportions in Similar Figures

- A** $10x = 4 * 5$ $x = 2$
- B** $4/8 = 3/x$ $6/2 = 12/x$
 $x = 6$ $x = 4$
 $15/5 = x/8$ $12/18 = 8/x$
 $x = 24$ $x = 12$
- C** 15 inches
 12 cm
 63 cm
 10 cm x 15 cm

DAY 111 Practice

- A** $x = 31 \frac{1}{2}$ $x = 54$
 $x = 4 \frac{1}{12}$ $x = 61 \frac{5}{7}$
- B** $20/8 = x/10$ $15/12 = x/8$
 $x = 25$ $x = 10$
 $8/6 = 20/x$ $48/16 = 60/x$
 $x = 15$ $x = 20$
- C** 17.5 cm
 2/3 or 2:3
 216 cm²
 20 inches
 108 cm

DAY 112 Scale Drawings

- C** *Drawing* *Actual*
 7 in 14 ft
 40 cm 80 m
 6.5 cm 260 km
 1 in 100 miles
- D** 93 km
 1 in = 5 ft
 1.8 cm x 2 cm
 10 square inches

DAY 112 Practice

- A** *Drawing* *Actual*
 8 in 32 ft
 4.5 cm 18 m
 2.5 cm 125 km
 4 in 200 miles
 12 cm 180 km
- B** *Kitchen:* 72 ft² *Living:* 270 ft²
Bedroom: 108 ft² *Master:* 216 ft²
Bathroom: 72 ft² *Entire FL:* 756 ft²
- C** 8 feet
 2 in = 1 ft
 22 inches
 16 square feet

DAY 113 Scale Drawings

- A** 1:25 = 3:x, $x = 3 * 25 = 75$
 The two cities are 75 miles apart.
- B** 1/60 1/24
 2/15 1/40
- C** *Model* *Actual*
 7 in 168 in
 1.2 ft 28.8 ft
 2.5 in 60 in
 2 ft 48 ft
 0.6 ft 14.4 ft
- D** 110 miles
 1 in = 15 ft
 11 in x 16 in

DAY 113 Practice

- A** *Drawing* *Actual*
 3.5 in 21 ft
 12 in 96 ft
 9.2 cm 46 m
 15 in 600 miles
- B** *First 3 shapes:* 120 in² 72 in² 144 in²
Next 2 shapes: 112 in² 144 in²
- C** 120 miles
 11 a.m.
 4.8 inches
 64 mph
 \$24.30
 300 miles

DAY 114 Perimeter and Area of ...

C	24	36	$N/M = 36/24 = 3/2$	
D	32	72	$N/M = 72/32 = 9/4$	
E	$SF = 3/4$		$SF = 2$	
	$x = 12$	$y = 15$	$x = 5$	$y = 8$
	$SF = 3/5$		$SF = 2/3$	
	$x = 25$	$y = 12$	$x = 12$	$y = 10$

DAY 114 Practice

A	False, True, True, True, False				
B	A & B:	9	12	42	108
		12	16	56	192
	M & N:	15	10	50	150
		6	4	20	24
	P & Q:	9	21	60	189
		24	56	160	1344
	X & Y:	0.8	2	5.6	1.6
		1	2.5	7	2.5
C	56 cm				
	4:5				
	100 cm ²				
	72 inches				

DAY 115 Similar Figures in Real Life

B	$x = 15$	$y = 24$	$x = 6$	$y = 6$
	$x = 58^\circ$	$y = 28.2$	$x = 10$	$y = 8$
C	187.5 feet			
	15 feet			
	1.4 meters			
	54 cm ²			
	105 cm			

DAY 115 Practice

A	$x = 15$	$y = 12$	$x = 20$	$y = 9$
	$x = 9$	$y = 17$	$x = 68^\circ$	$y = 12$
	$x = 30$	$y = 25$	$x = 5$	$y = 8$
B	240 meters			
	1.5 meters			
	126 inches			
	64 cm ²			
	9 meters			
	108 cm ²			
	2 gallons			

DAY 116 Project: Perimeter and ...

A	8	6	28	48
	16	12	56	192
	24	18	84	432
	4	3	14	12
B	<ul style="list-style-type: none"> ▪ 4 times longer. Scale factor = 4 ▪ 4 times larger. ▪ 16 times larger. ▪ New perimeter = Original perimeter * Scale factor ▪ New area = Original area * Scale factor squared 			
C	3/2			
	$15/10 = 9/x$		$x = 6$	
	$N = 48$	$O = 32$	$N:O = 3:2$	
	$N = 135$	$O = 60$	$N:O = 9:4$	
D	3 times larger			
	$30/6 = 5$, so the scale factor is 5.			
	$135/15 = 9$, so the scale factor is 3.			

DAY 117 Review: Proportional ...

B	<i>First 7 answers:</i>	<i>Next 6 answers:</i>
	50 mph	15 boys
	18 feet	93 km
	50.8 cm	\$28
	\$20	Jacob
	\$4,500	750 miles
	12 days	98 grams
	45 feet	

DAY 117 Practice

A	True, True, True, False, True	
B	4.8 feet	
	6 girls	
	156 miles	
	\$26	
	95 pounds	
C	80 reptiles	
	120 birds	
	24 birds	
	500 children	
	300 visitors	

DAY 118 Angle Relationships

- D** Right Acute Obtuse
E Comp. Suppl. Neither
 Neither Comp. Suppl.
F 67° 130°
 131° 93°

DAY 118 Practice

- A** Obtuse Acute Acute
 Acute Obtuse Straight
B 45° 60° 48°
 70° 6° 31°
C 155° 80° 120°
 90° 123° 45°
D The second and third statements.
E 60° 35°
 44° 73°
 74° 31°

DAY 119 Angle Relationships

- D** 55° 44°
 130° 64°
E 65 26

DAY 119 Practice

- A** $\angle 2$
 $\angle 7$
 $\angle 2, \angle 4, \angle 8$
B Suppl. Vertical Comp. Corresp.
C 138° 28°
 45° 72°
 60° 56°
D 9 114

DAY 120 Angle Relationships

- C** Alt ext. Vertical Comp. Alt int.
D 113° 88°
E 21 17
 18 14

DAY 120 Practice

- A** Obtuse Acute Right
B Vertical Alt-ext. Suppl. Corresp.
 Alt-int. Comp. Alt-ext. Vertical
C 9 12
 15 15
D 360°

DAY 121 Triangles

- C** Acute Obtuse Acute Right
 Equilateral Isosceles Scalene Isosceles
 Acute Right Obtuse Acute
 Isosceles Scalene Scalene Equilateral
D No Yes Yes

DAY 121 Practice

- A** D, F, G, H B, E, I A, C, J
 D, H C, E, F, I A, B, G, J
B Yes No Yes
C 60° 48°
 53° 35°
D $a = 60^\circ$ $b = 75^\circ$ $c = 75^\circ$ $d = 75^\circ$

DAY 122 Triangles

- D** $2 < x < 8$ $7 < x < 11$ $2 < x < 10$
 $4 < x < 20$ $3 < x < 17$ $6 < x < 24$
E 17 101
 18 15

DAY 122 Practice

- A** Yes No No
 Yes Yes Yes
B $2 < x < 10$ $5 < x < 9$ $3 < x < 13$
 $7 < x < 23$ $5 < x < 17$ $1 < x < 19$
C 90 7
 22 7
 8 13
D 540° 720°

DAY 123 Project: Properties of Triangles

There is no answer key for this project, but you should be able to explain. Make sure that no two sides added up are less than the third side.

DAY 124 Cross Sections

- C** Circle
 Square
 Rectangle
 Triangle
 Rectangle
 Oval
 Triangle
 Triangle
 Circle
 Trapezoid

DAY 124 Practice

A Square pyramid	Square	Triangle
Triangular prism	Triangle	Rectangle
Cylinder	Circle	Rectangle
Triangular pyramid	Triangle	Triangle
Cube	Square	Rectangle
Cone	Circle	Triangle
Pentagonal prism	Pentagon	Rectangle
Pentagonal pyramid	Pentagon	Triangle
Hexagonal prism	Hexagon	Rectangle

DAY 125 Circumference and Area of ...

E C =	A =	C =	A =
31.4 m	78.5 m ²	12.56 cm	12.56 cm ²
62.8 cm	314 cm ²	50.24 in	200.96 in ²
69.08 in	379.94 in ²	37.68 ft	113.04 ft ²
43.96 cm	153.86 cm ²	56.52 in	254.34 in ²

DAY 125 Practice**A** True, True, False, True

B C =	A =	C =	A =
69.08 cm	379.94 cm ²	81.64 m	530.66 m ²
43.96 m	153.86 m ²	56.52 in	254.34 in ²
50.24 ft	200.96 ft ²	25.12 in	50.24 in ²
94.2 in	706.5 in ²	62.8 cm	314 cm ²

- C** 19 miles
 9 km/h
 42 in²

DAY 126 Circumference and Area of ...

C C =	A =	C =	A =
6.28 cm	3.14 cm ²	87.92 m	615.44 m ²
37.68 m	113.04 m ²	43.96 in	153.86 in ²
75.36 in	452.16 in ²	94.2 ft	706.5 ft ²
D 16	8	16π	64π
18	9	18π	81π
3	1.5	3π	2.25π
5	2.5	5π	6.25π

DAY 126 Practice

A 4	2	4π	4π
12	6	12π	36π
20	10	20π	100π
2.2	1.1	2.2π	1.21π
7	3.5	7π	12.25π
B C =	A =	C =	A =
94.2 cm	706.5 cm ²	18.84 cm	28.26 cm
56.52 m	254.34 m ²	113.04 ft	1017.36 ft ²
81.64 ft	530.66 ft ²	75.36 in	452.16 in ²
C 1,047 feet			
20 cm			
478 meters			
3 ft ²			

DAY 127 Area of Composite Figures

C 39 in ²	36.5 m ²
13.42 cm ²	39.25 in ²
147.07 in ²	185.04 ft ²

DAY 127 Practice

A 81 in ²	27 ft ²	78.5 cm ²
35 m ²	135 cm ²	150 in ²
B 42 in ²	174 ft ²	
8.56 m ²	362.34 cm ²	
C P = 42.84 yd	P = 51.4 cm	
A = 128.52 yd ²	A = 146.5 cm ²	

DAY 128 Area of Composite Figures

B *If your answer is close, you are correct!*

About 15 ft² About 11 ½ ft²

C 12 ft² 144 in²
93 in² 237.86 m²
133 in² 102.88 ft²

DAY 128 Practice

A *If your answer is close, you are correct!*

About 9 ft² About 17 ft²

About 15 ½ ft² About 14 ½ ft²

B 40 cm² 48 in²
10.26 ft² 42.84 m²

C P = 56.52 ft P = 62.8 in
A = 169.56 ft² A = 257 in²

DAY 129 Catch up and Review!

B Complementary = 45°, Supplementary = 135°

x = 14

Alternate exterior angles

Not possible.

x = 2

DAY 129 Practice

A Obtuse Acute Straight

B Suppl. Comp. Comp.
Neither Neither Suppl.

C Yes No Yes
Yes No No

D 38 8
6 20
54 14

E 43.5 in²
30 cm²

DAY 130 Catch up and Review!

B Circle

Circumference = 31.4 cm, Area = 78.5 cm²

36.48 in²

About 10 cm²

DAY 130 Practice

A *If your answer is close, you are correct!*

About 16 ft² About 15 ft²

B 93.6 in² 396 m²
285.5 in² 209.86 m²
208.17 ft² 110.52 cm²

C 8 m
16 yd²
30 cm²

DAY 131 Catch up and Review!

B $\triangle ABC \sim \triangle ZYX$

C Yes No
No No

D 15 kiwis
75 minutes or 1 hour 15 minutes
\$62.50
250 calories
\$1.75
1,100 fps
125 pounds

DAY 131 Practice

A $2/4 = 8/16$, $2/8 = 4/16$

B Yes Yes
No Yes

C x = 33 x = 54
x = 4 x = 66

D 1,035 apples
84 miles
6 2/3 cups
16 games
4,080 meters

DAY 132 Catch up and Review!

- B** $2/5 = 3.2/x$ $x = 8$
The shark is 8 feet long.
- C** Kitchen: 50 ft² Living: 187.5 ft²
Bedroom: 75 ft² Master: 150 ft²
Bathroom: 50 ft² Entire FL: 525 ft²
- D** \$225
80 feet
Type Q
1.5 inches
6.5 feet

Write numbers in their roman forms. Remove I from IX or XI, you get X.)

DAY 132 Practice

- A** The second proportion.
- B** *Drawing* *Actual*
5.2 in 15.6 km
9.5 in 38 mi
16 cm 400 km
9 in 3,600 mi
- C** 32 in² 53.68 in²
41.12 in² 44.56 in²
- D** 4π inches
0.5 inches
4,200 miles

DAY 133 Catch up and Review!

- B** $12/x = 15/20$ $x = 16$
The taller tree is 16 feet tall.
- C** $x = 10$ $y = 6$ $x = 12$ $y = 10$
 $x = 1$ $y = 0.8$ $x = 15$ $y = 5$
- D** 32.5 feet
9 meters
4 m²
72 ft²

DAY 133 Practice

- A** True, True, False, False, False
- B** $x = 6$ $y = 10$ $x = 24$ $y = 8$
 $x = 10$ $y = 8$ $x = 12$ $y = 10$
- C** 10 feet
81 cm²
4.4 feet
6:7
40 meters

DAY 134 Volume of Solids

- C** 8 cm³ 9 cm³
12 cm³ 18 cm³
18 cm³ 22 cm³
27 cm³ 36 cm³

DAY 134 Practice

- A** 6 cm³ 7 cm³
12 cm³ 15 cm³
14 cm³ 15 cm³
24 cm³ 24 cm³
28 cm³ 25 cm³
24 cm³ 32 cm³

DAY 135 Volume of Prisms and ...

- C** 64 cm³ 252 m³
56 in³ 195 in³
1,056 in³ 592 ft³

DAY 135 Practice

- A** 245 m³ 240 cm³
405 cm³ 1,260 in³
1,566 m³ 192 in³
1,624 in³ 276 ft³
616 in³ 64 cm³

DAY 136 Surface Area of Prisms

- B** 606 ft² 294 cm²
72 cm² 600 in²
198 in² 652 ft²
150 in² 472 m²

DAY 136 Practice

- A** 216 m² 210 m²
1,920 in² 876 in²
742 in² 104 ft²
808 in² 156 cm²
480 cm² 846 ft²

DAY 137 Surface Area of Composite ...

- B** 312 in² 486 cm²
468 cm² 834 m²
298 m² 336 in²
768 in² 320 ft²

DAY 137 Practice

- A** 54 m² 150 in²
440 cm² 360 cm²
716 ft² 420 ft²
1,968 ft² 178 in²
868 in² 242 in²

DAY 138 Project: Perimeters of ...

- A** Circle Radius = about 4.5 in
Circumference = about 28.3 in

Square Dimensions = 8 in x 8 in
Perimeter = 24 in

C A circle has the smallest perimeter among all shapes with the same area.

A square has the smallest perimeter among all rectangles with the same area.

DAY 139 Project: Areas of Shapes ...

- A** Circle Radius = about 10.2 ft
Volume = about 1,633.4 ft³

Square Dimensions = 16 ft x 16 ft x 5 ft
Volume = 1,280 ft³

C A cylinder has the largest volume among all prisms with the same height and base perimeter.

A square prism has the largest volume among all rectangular prisms with the same height and base perimeter.

DAY 140 Volume and Surface Area ...

- A** $V =$ $SA =$
216 in³ 216 in²
392 in³ 322 in²
480 in³ 376 in²
270 cm³ 306 cm²
12 m³ 36 m²
180 m³ 240 m²
78 ft³ 121.2 ft²
960 cm³ 608 cm²
144 m³ 204 m²

DAY 140 Practice

- A** $V =$ $SA =$
512 in³ 384 in²
144 in³ 176 in²
180 in³ 202 in²
324 m³ 324 m²
360 cm³ 352 cm²

- B** 96 in²
54 cm³
162 in²
230 cm²
8 ft³
280 in³

DAY 141 Data Analysis

- A** 1, 3, 8, 12, 29
See Day 42, Part A.
- B** See Day 42, Part C.
- C** See Day 43, Part E.
- D** Store M = \$6, Store N = \$4
Store M
75%
50%
25%
- E** Sam
Sam
Sam
10 days
Answers will vary.

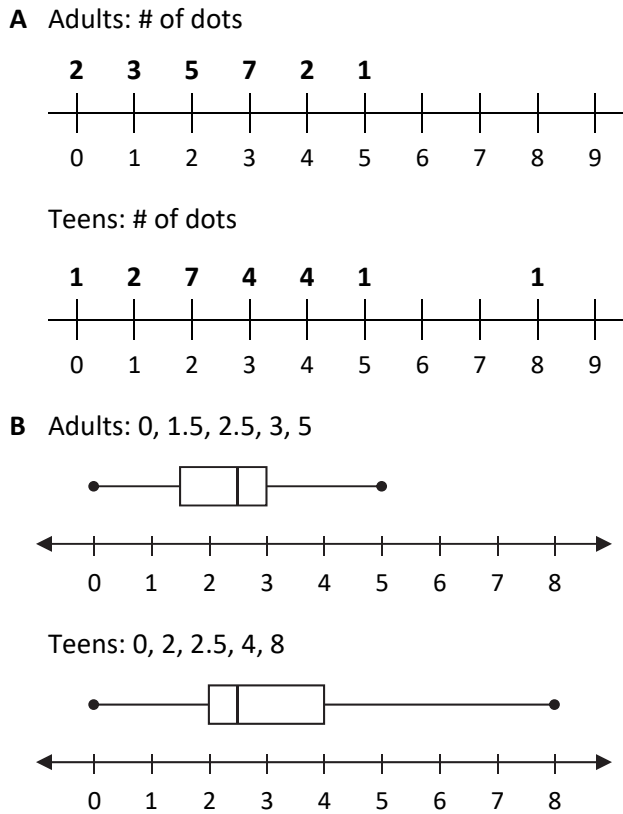
DAY 141 Practice

- A The second and fourth statements.
- B The first and third statements.
- C Class M = 80, Class N = 75
Class M = 25, Class N = 30
Class N
25%
75%
- D Team B
Team B
Team A
4 games
7 games

DAY 142 Data Analysis

- A
- | | | |
|---|---|--|
| O | | |
| O | | |
| O | O | |
- B The third and fourth statements.
 - C The first, second, and fourth statements.
 - D The first and fourth statements.

DAY 142 Practice



(Continued on the next column.)

- C 2.5 2.5
3 2
5 8
1.5 2
3 adults
10 teens

D Answers will vary.

DAY 143 Populations and Samples

- D *Population:* *Sample:*
All Americans 300 Americans
120 patients 40 patients
- E The first, third, and fourth samples.

DAY 143 Practice

- A *Population:* *Sample:*
All US households 1000 US households
All customers 60 customers
All students 200 students
560 workers 80 workers
- B The second, third, sixth, and seventh samples.
- C Population = 800 students
Sample = 50 students
 $15/50 = x/800$, $x = 240$
About 240 students

DAY 144 Populations and Samples

- C The first and fourth samples.
- D Restaurant: self-selected
Retail store: systematic
High school: stratified
News organization: convenience
- E Population = 55,000 residents
Sample = 200 residents
 $40/200 = x/55,000$
About 11,000 residents

DAY 144 Practice

- A** *Population:* All US college students
Sample: 500 US college students
 All library patrons 150 library patrons
- B** The second and third samples.
- C** Self-selected
 Stratified
 Convenience
 Systematic
- D** The second, third, and fifth statements.

DAY 145 Project: Data Analysis

- A** The two cities are similar in that both graphs show a bell-shaped curve.
 The two cities are different in that average high temperatures in Phoenix are overall higher than those in Seattle.
- B** Arizona: Plot B
 Seattle: Plot D

DAY 146 Probability of Simple Events

- B** 6 1/6
 1, 2, 3, 4 2/3
 2, 3, 5 1/2
 3, 6 1/3
- C** As likely as not
 Likely
 Impossible
 Certain
 Unlikely

DAY 146 Practice

- A** True, True, False, False, False
- B** 2, 4, 6 1/2
 1, 2, 3, 4, 5, 6 1
 None 0
 4, 6 1/3
 1, 2, 3, 5, 6 5/6
- C** *First 4 answers:* As likely as not
 Impossible
 Unlikely
 Likely
Next 4 answers: Certain
 Likely
 As likely as not
 Unlikely

DAY 147 Probability of Simple Events

- B** 2/3 1/3 1
 0 1 1
 1 0 1
 1/3 2/3 1
- C** 25% 0% 75% 25%
- D** Certain
 Impossible
 Likely
 As likely as
 Unlikely

DAY 147 Practice

- A** Clear 20 0.2 0.8 0.9 0.1
- B** 1/4 3/4 3/8 5/8
- C** *First 5 answers:* Unlikely
 Likely
 As likely as
 As likely as
 Certain
Next 4 answers: Impossible
 Likely
 Likely
 Likely

DAY 148 Experimental Probability

- C** 12% 20% 90% 36% 42%
- D** 2/5 1/3 7/15 6/11 3/8 1/25

DAY 148 Practice

- A** 16% 20% 64% 80%
- B** 3/20 2/5 1/4 1/2 1/2
- C** 2/3 3/5 1/4 2/9 7/11 3/13

DAY 149 Experimental Probability

- B** Answers will vary.
- C** 2/3 1/3 4/5 0 Black
- D** 3/5 5/6 7/15 19/25 3/100

DAY 149 Practice

- A** Answers will vary.
- B** 0.25 0.17 0.65 0.4
- C** 8/15 3/4 3/5 2/7 1/40

DAY 150 Theoretical Probability

- C** 25% 50% 30% 45%
- D** 5/26 5/12
 3/4 7/10
 3/4 2/45

DAY 150 Practice

- A** False, True, False, False, True
- B** 1/2 1/3 8/15 1/3
- C** 1/2 4/9 0 13/18
- D** 3/5 2/3 11/20

DAY 151 Theoretical Probability

- B** 2/3 1/3 1/6 2/3
- C** 0.28 0.68 0.72
- D** 2/3 4/5
 3/5 9/11
 1/2 2/5

DAY 151 Practice

- A** The first and fourth situations.
- B** 12% 89% 19% 5% 6% 5%
- C** 4/7 3/5 9 4/15 1/6

DAY 152 Sample Spaces

- C** Penny, Nickel, Dime, Quarter
 11, 12, 13, 21, 22, 23, 31, 32, 33
 HHH, HHT, HTH, HTT, THH, THT, TTH, TTT
- D** 365 32 52 18 60

DAY 152 Practice

- A** 16, 25, 36, 49, 64, 81
 26 alphabet letters
 H1, H2, H3, H4, H5, H6, T1, T2, T3, T4, T5, T6
 TTT, TTF, TFT, TFF, FTT, FTF, FFT, FFF
 R/T, R/B, B/T, B/B, T/T, T/B
- B** 36 32 42 24 60
 6 9 32 256 6,561

DAY 153 Simulations

- C** 3/10 or 30%
- E** 11/20 or 55%
- F** 7/10 or 70%

DAY 153 Practice

- A** 1/2 or 50%
- B** 9/10 or 90%
- C** 1/20 or 5%

DAY 154 Making Predictions

- C** 50% 55% 30 33
- D** 12 times
 13 free throws
 44 days
 375 customers

DAY 154 Practice

- A** 75% 84% 375 420
- B** The first, fourth, and fifth statements.
- C** 18 times
 16 games
 122 donuts
 2 times
 1,940 mail pieces

DAY 155 Making Predictions

- A** $45/100 = x/52000$, $x = 23400$
 Inaccurate. Less than 25,000 people.
- B** 75% 68% 188 170
- C** 13 times
 15 times
 4 times
 7 games
 28 heads
 15 times
 9 flights

DAY 155 Practice

- A** Grace, Amanda
- B** 25% 3 80% 12
- C** 10 times
 6 times
 11 times
 14 throws
 77 days
 5 times
 6,270 adults
 375 customers

DAY 156 Probability of Compound ...

- E $1/36$ $1/12$ $1/4$
 F $1/25$ $6/25$ $1/25$
 G $2/9$ $4/9$ $8/9$

DAY 156 Practice

- A $1/12$ $1/6$ 0
 B $1/4$ $1/2$ $3/4$
 C $1/81$ $1/81$ $4/9$ $1/3$
 D $1/8$ $1/27$ $1/32$ $1/7$ $4/9$ $4/25$

DAY 157 Probability of Compound ...

- D $1/20$ $3/10$ 0
 E $4/15$ $2/5$ $14/15$
 F $1/6$ $1/12$ $1/6$

DAY 157 Practice

- A Independent
 Independent
 Dependent
 Independent
 Dependent
 B $1/72$ 0 $4/9$ $1/3$
 C $5/36$ $7/8$ $5/12$ $1/5$
 $1/10$ $1/6$ $5/126$

DAY 158 Project: Probability

- A $1/9$
 About 1 ticket
 About 11 tickets
 Not a good money raiser. They are likely to give out more money as prizes than earn from ticket sales
 B There are 15 ways, so the probability is $1/15$.
 About 2 tickets
 About 7 tickets
 It is better than Jessie's plan, but they will still give out as prizes a good portion of what they make from ticket sales.

DAY 159 Review: Probability

- B $1/2$ $1/4$ $12/13$ $1/52$ 0
 C $1/4$ $3/32$ $1/16$ $3/32$
 D $1/60$ $3/5$ $3/5$ $1/10$ $1/5$

DAY 159 Practice

- A 4 8 36
 B 25% 75% 75% 50%
 C 0.125 0.125 0.375 0.5 0.875
 D $1/12$ $1/6$ $5/12$ $25/36$ $11/36$ $1/6$

DAY 160 Catch up and Review!

- B The left plot.
 P = All US households, S = 1000 US households
 $1/3$
 Experimental = $14/25$, Theoretical = $1/2$
 HHH, HHT, HTH, HTT, THH, THT, TTH, TTT
 About 9 times.
 $1/6$

DAY 160 Practice

- A 72 45 9 1,024 456,976
 B $1/4$ $1/5$ $1/3$ $1/1,024$ $1/26$
 C 60 times
 16 throws
 27 times
 13 times
 5 days

DAY 161 Writing and Evaluating ...

- A If you add first, you get $7 \times 5 = 35$.
 If you multiply first, you get $4 + 15 = 19$.
 B Substitute 3 for x.
 $2x + 5 = 2 \cdot 3 + 5 = 11$
 C 28 35
 3 28
 D 13 36
 17 44
 E $x/4$
 $y - 8 - 7$
 $0.9m + 1.5n$
 F 60 mph 8 apples 16.50 dollars

DAY 161 Practice

- A** 15 12
 1 36
 10 270
 60 169
- B** 42 12
 3 40
 15 23
- C** $u/6$
 $n - (1/3)n$
 $x(x - 4)^2$
- D** 1.25 dollars 18 candies 24 cubic cm

DAY 162 Commutative and ...

- A** $13 + (29 + 47) = (13 + 47) + 29 = 60 + 29 = 89$
- B** $(2 \times 16) \times 5 = 16 \times (2 \times 5) = 16 \times 10 = 160$
- C** $37 + 4$ $7 \times (9 \times 4)$
 $26 \times k$ $(16 + 3) + z$
 $b + 34$ $(2 \times 25) \times c$
- D** 89 210
 118 720
 117 18,000
- E** $a + 9$ $28p$
 $b + 7$ $45q$
 $c + 29$ $72r$
- F** $(3 + k) - 6 = k - 3$ $(4g) \times 5 = 20g$
 $8 + (4 - w) = 12 - w$ $2 + 7m$

DAY 162 Practice

- A** $30 + 18$ $(3 \times 9) \times 5$
 $110 \times b$ $m + (8 + 2)$
 $a + 207$ $(p \times q) \times 40$
- B** 79 280
 122 420
 127 27,000
 104 6,300
- C** $a + 19$ $36p$
 $41 - b$ $42q$
 $c - 23$ $80r$
 $36 + d$ $48s$
- D** $(3 + p) - 8 = p - 5$ $c/2 - 6$
 $5q + 7$ $8 + 2n$
 $9(3u) = 27u$ $(3 - w) + 9 = 12 - w$
 $(k + 5) - 5 = k$ $5(4m) = 20m$

DAY 163 Distributive Property...

- A** $4 \times (60 + 7) = 4 \times 60 + 4 \times 7 = 240 + 28 = 268$
- B**

O	O
O	O
- C** 196 4,620
 477 -760
 252 -2,880
 1,050 2,160
- D** $4x + 28$ $15 - 2m$
 $3a - 24$ $15p + 19$
 $4xy + 5x$ $27 - 24k$
 $10z + 14z$ $15r + 10s - 5$
- E** $4(4 + d) = 16 + 4d$
 $5(0.1k) = 0.5k$
 $2(5 + 3x) = 10 + 6x$
 $12(g - 5) = 12g - 60$

DAY 163 Practice

- A**

	O	O
O		
	O	
- B** 224 5,250
 574 -1,410
 165 -25,200
- C** $3a + 6$ $14 + 6n$
 $7y - 35$ $28x - 3$
 $2pq + 6p$ $18 - 21g$
- D** $5(m + 3) = 5m + 15$ $3(2 + k) = 6 + 3k$
 $(n - 8)4 = 4n - 32$ $h/5 + 15$
- E** $b + 0.18b = 1.18b$
 $5(5 - h) = 25 - 5h$
 $0.5(12 + 6b) = 6 + 3b$

DAY 164 Using Formulas

- B** 174 miles
 125 km/h
 \$240
 5%
 5 cm
 30 in
 24 cm²
 6.28 ft³
 10 cm

DAY 164 Practice

- A** 3.14 in²
 24 m
 15.6 cm²
 4.5 ft²
 120 cm²
 80 in²
 4 m
- B** 36π in³
 100π in²
 36 feet
 288 cm²

DAY 165 Writing Equations with One ...

- | | |
|--------------------|-----------------|
| B 4x = 19.2 | 2πx = 31.4 |
| 4.8 centimeters | 5 inches |
| x + (x + 1) = 11 | x + 0.2x = 1.44 |
| The smaller is 5. | 1.20 dollars |
| x + 3x = 140 | x - 1.8 = 7.4 |
| 35 dollars | 9.2 pounds |
| 0.6x = 24 | 10 + 7x = 45 |
| 40 dollars | 5 hours |

DAY 165 Practice

- | | |
|------------------|-------------------|
| C 7x = 98 | 3x = 1.8 |
| 14 dollars | 0.6 centimeters |
| πx = 94.2 | x + (x + 2) = 12 |
| 30 centimeters | The smaller is 5. |
| x + 21 = 36 | x - 34 + 18 = 15 |
| 15 years old | 41 paper cups |
| x + (x + 9) = 35 | 20 - 2x = 5 |
| 13 dollars | 7.50 dollars |
| x - 0.1x = 45 | 2(12x) = 576 |
| 50 dollars/share | 24 dollars |

DAY 166 Addition and Subtraction ...

- | | | |
|-----------------------------|-----------------|------------|
| B x = 12 | x = 7 | x = 5.1 |
| x = 18 | x = 2.6 | x = 0.83 |
| x = 1/4 | x = 5/6 | x = 1 7/20 |
| x = 1 1/2 | x = 2 4/9 | x = 0 |
| C 5 + 5 + 6 + x = 22 | 6 centimeters | |
| x + 34 = 87 + 65 | 118 seashells | |
| 3/8 + x = 5/8 | 1/4 of the book | |

DAY 166 Practice

- | | | |
|---------------------------|--------------------|-----------|
| A x = 17 | x = 22 | x = 73 |
| x = 18 | x = 14 | x = 9 |
| x = 0.3 | x = 0.234 | x = 0.92 |
| x = 1 3/8 | x = 13/24 | x = 2 2/3 |
| x = 1 3/10 | x = 5/6 | x = 5/12 |
| B x - 35 + 23 = 52 | 64 people | |
| 1/2 + 3/10 + x = 1 | 1/5 of the markers | |
| 2 * 5 + x = 20 - 3 | 7 dollars | |

DAY 167 Multiplication and Division ...

- | | | |
|----------------------|---------------|---------|
| B x = 13 | x = 21 | x = 7 |
| x = 2 | x = 8 | x = 30 |
| x = 85 | x = 2.24 | x = 6/7 |
| x = 6 2/5 | x = 10 | x = 24 |
| C 6x = 54 | 9 centimeters | |
| 56x = 140 | 2.5 hours | |
| x + 2x = 51 | 17 dollars | |
| (1/2)x + (1/5)x = 14 | 20 dollars | |

DAY 167 Practice

- | | | |
|--------------------|---------------|---------|
| A x = 12 | x = 15.6 | x = 0.7 |
| x = 8 | x = 6 | x = 0.1 |
| x = 5 | x = 0.4 | x = 43 |
| x = 120 | x = 3.6 | x = 4/5 |
| x = 2 1/2 | x = 9 | x = 8 |
| B 0.9x = 27 | 30 problems | |
| 5 * 5 * x = 125 | 5 centimeters | |
| (3/4)x = 12 | 16 pieces | |
| x + (1/2)x = 9 | 6 coins | |

DAY 168 Two-step Equations

- | | | |
|-------------------------------------|--------------------|-----------|
| B x = 4 | x = 6 | x = 0.7 |
| x = 27 | x = 16 | x = 43 |
| x = 1/8 | x = 9 | x = 2 1/4 |
| C x + (x + 1) + (x + 2) = 30 | The smallest is 9. | |
| 15 - 1.5x = 3 | 8 pears | |
| 2 * 8 + 2x = 24 | 4 feet | |
| 83 + 25x = 158 | 3 days | |

DAY 168 Practice

- A** $x = 4$ $x = 11$ $x = 9.5$
 $x = 25$ $x = 126$ $x = 32.4$
 $x = 3/4$ $x = 1/3$ $x = 1\ 7/11$
- B** $(1/2)x + 6 = 18$ 24 stamps
 $4x + 8 = 76$ 17 dollars
 $3x + 13 = 40$ 9 dollars
 $2x + 2(x - 5) = 26$ 9 centimeters
 $4 * 2 + 6x = 20 - 3$ 1.50 dollars

DAY 169 Functions

- B** $y = 9x$ $y = x/2 - 5$
 $y = (1/3)x$ $y = x + 8$
- C** (10, 2)
(-1, 9)
(3, -4)
(-4, 17)
(6, 0.5)
- D** $y = \pi x$
 $y = 2x + 10$

DAY 169 Practice

- A** $y = x + 3$ $y = 2x - 5$
 $y = 5x$ $y = x + 8$
- B** (8, -3)
(-2, -5)
(3, 8.1)
(48, 11)
- C** $y = 6x$
 $y = (1/3)x$
 $y = 20 - 2x$
 $y = 6x + 8$
- D** Hexagon: 12 24 36 48 60
Triangle: 1 2 3 4 5
Apples: 18 16 14 12 10
Bike: 14 26 38 50 62

DAY 170 Inequalities

- A** Answers will vary. Sample:
8, 9, 10
- C**

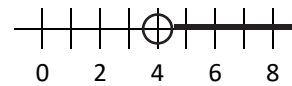
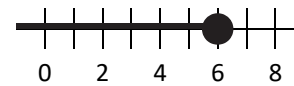
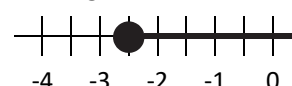
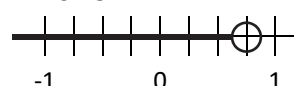
O	O		
O		O	O
- D** $k \leq 4$ $k > -3$ $-4 < k \leq 8$
 $k > -20$ $k \leq 25$ $-45 \leq k \leq -15$
- E** $12 > y - 8$ $w + 6 \geq 15$
 $5p \leq 4$ $10 < 2z + 3$
- F** $x > 15$
 $x \leq 30$
 $x \geq 2$

DAY 170 Practice

- A**

O	O		
	O	O	O
O		O	
- B** $m > 2$ $m \geq -1$ $-5 < m \leq 10$
 $m \geq -6$ $m < 35$ $-25 \leq m < 0$
- C** $b - 5 \geq 8$ $d + 3 \leq 7$
 $9 \leq 5k$ $2n + 4 > 6$
 $u + 7 > 6$ $p/3 \leq 2$
- D** $0 < x < 100$
 $x \leq 1,500$
 $x < 10$
 $x > 300$

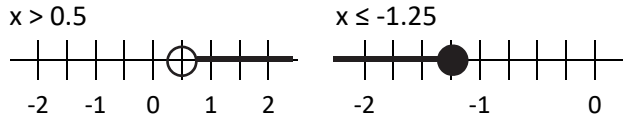
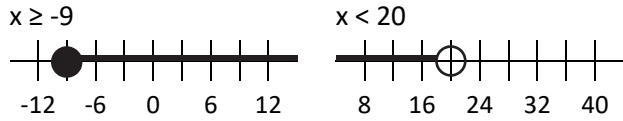
DAY 171 Addition and Subtraction ...

- A** $x < 12$ $x \geq -12$ $x \leq 2.88$
 $x > 1\ 1/4$ $x \leq 1/12$ $x > 3\ 7/12$
- B**
- $x > 4$  $x \leq 6$ 
- $x \geq -2.5$  $x < 0.75$ 
- C** $25 + x \geq 45$ $x \geq 20$ At least \$20
 $15 + x < 32$ $x < 17$ Fewer than 17 coins
 $14 + x \geq 18$ $x \geq 4$ At least 4 miles

DAY 171 Practice

A $x < -9$ $x \geq 5$ $x < -0.87$
 $x \leq 5/8$ $x < -11/24$ $x > 1 \frac{3}{5}$

B

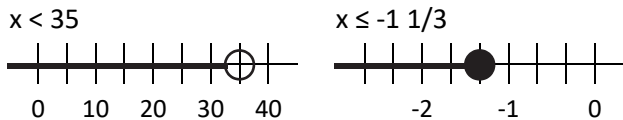
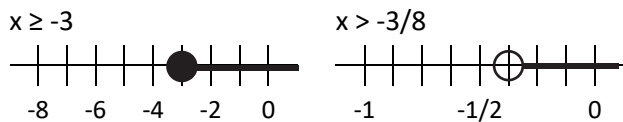


C $52 + x \geq 80$ $x \geq 28$ A minimum of \$28
 $2 + x \leq 6$ $x \leq 4$ At most 4 friends
 $9 + 10 + x \geq 30$ $x \geq 11$ At least \$11

DAY 172 Multiplication and Division ...

B $x < -15$ $x \geq 17$ $x \geq 0.7$
 $x < -68$ $x > 0.3$ $x \geq -5/18$

C

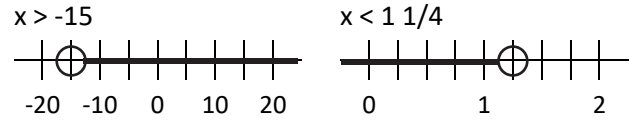
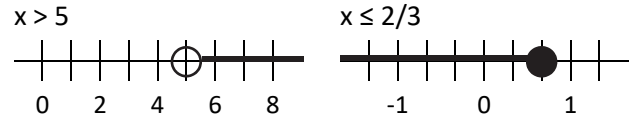


D $4 * 6 * x \leq 192$ At most 8 cm
 $20 - 12x > 5$ Less than \$1.25

DAY 172 Practice

A $x < -13$ $x \leq -34$ $x > 2.4$
 $x < -87$ $x > -0.36$ $x \geq 2 \frac{2}{5}$

B



C $5x \leq 45$ $x \leq 9$ At most 9 cm
 $1.25x \leq 50$ $x \leq 40$ At most 40 pears
 $4x \geq 28$ $x \geq 7$ At least 7 feet
 $0.25x > 2000$ $x > 8000$ More than \$8,000

DAY 173 Integers and Absolute ...

- B** See the example on Day 48.
C False. $|0| = 0$, $|1| = 1$, $|2| = 2$, and so on.
D 1st set: -12, -2, |-1|, 7, |-12|, 16
 2nd set: -40, -18, -5, |-2|, 9, |-19|
E 7 7
 7 20
 34 43
 34 60
F 13, 6, -9

DAY 173 Practice

- A** False.
 $|4 + (-2)|$ is not equal to $|4| + |-2|$.
B 1st set: -15, -2, 5, |-8|, 10, |-15|
 2nd set: -9, -5, 0, |-9|, |-14|, 20
C 18 14
 6 2
 18 14
 53 47
 59 47
D -2, 12, 4, -2, 3

DAY 174 Adding and Subtracting ...

B -14 73
 10 -36
 -14 -7
 2 -8
 -15 -17

C -8 °C
 -305 feet
 \$457
 Brooklyn
 30,340 feet

DAY 174 Practice

A 5 38
 -19 8
 -12 -44
 -10 79
 -50 23
 -6 -38

B 6th floor
 11 °C
 \$20,100,000
 385 years
 2,276 years

C 15, 19 35, 44

DAY 175 Multiplying and Dividing ...

B 400 1,500 1,480
 -285 -180 -490
 -14 -12 -4
 17 6 -2

C 60 -60 -3
 60 4 -15

D -680 feet
 \$7,900
 -5.5 °C
 68,200

DAY 175 Practice

B -120 4,980 -392
 -14 -1,200 -1,800
 12 1,620 10
 360 -4 -9

C 160 10 -16
 160 -2 10

D 70 feet/minute
 23 hours
 \$119
 \$12,380

E 128, 256 49, 64

DAY 176 Two-step Equations

B $x = 3$ $x = 4$ $x = -5$
 $x = -5$ $x = -32.8$ $x = 5$
 $x = -10$ $x = 2/3$ $x = -1$

C 6 feet
 9 pencils
 4.5 cm
 500

DAY 176 Practice

A $x = -1$ $x = -5.75$ $x = -2 \frac{2}{5}$
 $x = -18$ $x = 35.5$ $x = -7$
 $x = -66$ $x = -1/14$ $x = 9 \frac{1}{2}$

B 6 posters
 20 crayons
 6 years old

C *Three numbers:* *Answer:*
 12, 13, 14 7
 5, 7, 9 330
 9, 10, 11 1000

DAY 177 Two-step Inequalities

B $x > 2$ $x \leq 3 \frac{1}{2}$ $x \leq -3$
 $x \geq 34$ $x \leq 4$ $x \leq 1 \frac{1}{5}$
 $x \geq 27$ $x < 3 \frac{1}{4}$ $x \geq -27$

C 16
 8 cm
 \$13
 Less than \$8

DAY 177 Practice

- A** $x > 14$ $x \geq -15$ $x > -1$
 $x > -3$ $x \leq 61$ $x > 2.8$
 $x < -6$ $x \geq -3 \frac{3}{5}$ $x < 10$
 $x \geq 24$ $x < \frac{1}{4}$ $x \geq -\frac{3}{4}$
- B** 4 cm, 9 cm
 17 pencils
 5 cm

DAY 178 Ratios, Rates, and Unit Rates

- A** $\text{GCF}(32, 56) = 8$
 $32/56 = (32 \div 8)/(56 \div 8) = 4/7$
- C** 3:5 3:4 8:7
 2:5 4:3 6:7
- D** 43 points/game 15 children/group
 \$16/hour 60 miles/hour
- E** \$14.50
 Store M
 Walter
 \$17
 \$56

DAY 178 Practice

- A** 4:7 9:7 5:9
- B** 215 words/page 62 miles/hour
 \$18.20 /ticket 24 pages/day
- C** Carter
 Store Q
 \$11.50
 \$0.99
- D** 8:12
 4:10
 7:3

DAY 179 Proportions

- A** $2/5 = 4/10$, $5/2 = 10/4$,
 $2/4 = 5/10$, or $4/2 = 10/5$
- | | | | |
|----------|---|--|---|
| B | O | | O |
| | O | | O |
- C** No Yes
 Yes No
 Yes Yes
- D** Yes No
 No Yes
 Yes Yes

DAY 179 Practice

- A** 5:6 5:6 6:7 5:6
- B** No No
 No Yes
 Yes Yes
- C** Yes No
 No Yes
 Yes Yes
 Yes Yes

DAY 180 Proportions

- A** *Equivalent ratios:* *Cross multiplication:*
 Divide 9 and 15 by 3. $9/15 = x/5$
 $(9 \div 3)/(15 \div 3) = 3/5$ $15x = 45$
 $x = 3$ $x = 3$
- C** $x = 7.5$ $x = 25$
 $x = 8$ $x = 72$
 $x = 12$ $x = 48.6$
- D** \$2.80 12.5 inches
 2 hours \$32

DAY 180 Practice

- A** $x = 4$ $x = 20$
 $x = 8$ $x = 21$
 $x = 4$ $x = 24$
- B** 45 feet 1 hour 36 minutes
 \$16.50 4.8 seconds
- C** $x = 37$ $x = 4.5$
 $x = 12$ $x = -8.2$